

WEST Search History

DATE: Saturday, May 26, 2007

Hide?	Set Name	Query	Hit Count
<i>DB=DWPI,JPAB,EPAB,USOC,USPT,PGPB; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L25	SIMONET-W-S!	5
<input type="checkbox"/>	L24	SIMONET-WILLIAM-SCOTT!	4
<input type="checkbox"/>	L23	SIMONET-WILLIAM-S!	3
<input type="checkbox"/>	L22	SIMONET-WILLIAM!	3
<input type="checkbox"/>	L21	SIMONET-W!	4
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L20	l18 and l19	23
<input type="checkbox"/>	L19	l17 and bone density	50
<input type="checkbox"/>	L18	L17 and bone mass	40
<input type="checkbox"/>	L17	ocif and bones	156
<input type="checkbox"/>	L16	ocifL15	0
<input type="checkbox"/>	L15	ostoclastogenesis and factor	1
<input type="checkbox"/>	L14	osteoclast inhibiting factor	1
<i>DB=DWPI,JPAB,EPAB,USOC,USPT,PGPB; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L13	GOTO-MASAAKI!	167
<i>DB=USPT,PGPB; PLUR=YES; OP=ADJ</i>			
<input type="checkbox"/>	L12	HIGASHIO-KANJI!	41
<input type="checkbox"/>	L11	UEDA-MASATSUGU!	20
<input type="checkbox"/>	L10	UEDA-MASATSUGU!	20
<input type="checkbox"/>	L9	MORINAGA-TOMONORI!	22
<input type="checkbox"/>	L8	NAKAGAWA-NOBUAKI!	31
<input type="checkbox"/>	L7	YASUDA-HISATAKA!	20
<input type="checkbox"/>	L6	SHIMA-NOBUYUKI!	24
<input type="checkbox"/>	L5	KOBAYASHI-FUMIE!	30
<input type="checkbox"/>	L4	YANO-KAZUKI!	22
<input type="checkbox"/>	L3	MOCHIZUKI-SHINICHI!	19
<input type="checkbox"/>	L2	TSUDA-EISUKE!	32
<input type="checkbox"/>	L1	GOTO-MASAAKI!	83

END OF SEARCH HISTORY

Case # 10/785,114
 5/26/07 AD
 WEST(USPT,USOC,JPAB,
 EPAB,DWPI,PGPB)

FILE 'MEDLINE' ENTERED AT 18:19:53 ON 26 MAY 2007

FILE 'BIOSIS' ENTERED AT 18:19:53 ON 26 MAY 2007
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=> s ocif

L1 163 OCIF

=> s osteoprotegerin

L2 3686 OSTEOPROTEGERIN

=> s sl1 and l2

L3 0 SL1 AND L2

=> s l2 and bone

L4 3009 L2 AND BONE

=> s l1 and bones

L5 9 L1 AND BONES

=> s l1 and bon

L6 0 L1 AND BON

=> s l4 and py<1997

1 FILES SEARCHED...

L7 0 L4 AND PY<1997

=> s l4 and @py<1997

'1997' NOT A VALID FIELD CODE

'1997' NOT A VALID FIELD CODE

L8 0 L4 AND @PY<1997

=> s l4 and PY<1997

L9 0 L4 AND PY<1997

=> s l4 and density

L10 544 L4 AND DENSITY

=> s l10 and mass

L11 132 L10 AND MASS

=> s l11 and simonet

L12 0 L11 AND SIMONET

=> dup rem l11

PROCESSING COMPLETED FOR L11

L13 95 DUP REM L11 (37 DUPLICATES REMOVED)

=> l13 and l5

L13 IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

For a list of commands available to you in the current file, enter

"HELP COMMANDS" at an arrow prompt (=>).

=> s l13 and l5

L14 0 L13 AND L5

=> dup rem l5

PROCESSING COMPLETED FOR L5

L15 8 DUP REM L5 (1 DUPLICATE REMOVED)

=> disp l5 ibib abs 1-8

STN(BIOSIS, MEDLINE)

5/26/07

AG

Line# 10/285,114

L5 ANSWER 1 OF 9 MEDLINE on STN
ACCESSION NUMBER: 2005006273 MEDLINE
DOCUMENT NUMBER: PubMed ID: 15632471
TITLE: Osteoclastogenesis Inhibitory Factor (OCIF)
/Osteoprotegerin (OPG) as a new therapeutic agent for
osteoporosis.
AUTHOR: Mochizuki Shin-ichi; Kiyokawa Akiko; Nagayama Yuki
CORPORATE SOURCE: Biological Research Laboratories, Sankyo Co., Ltd., Japan.
SOURCE: Clinical calcium, (2005 Jan) Vol. 15, No. 1, pp. 35-42.
Ref: 25
Journal code: 9433326. ISSN: 0917-5857.
PUB. COUNTRY: Japan
DOCUMENT TYPE: (ENGLISH ABSTRACT)
Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
LANGUAGE: Japanese
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200505
ENTRY DATE: Entered STN: 6 Jan 2005
Last Updated on STN: 6 May 2005
Entered Medline: 5 May 2005

AB Osteoclastogenesis inhibitory factor (OCIF) is a novel member of
the Tumor Necrosis Factor Receptor superfamily and identical with
Osteoprotegerin (OPG) discovered by Amgen researchers. OCIF/OPG
is a decoy receptor (a soluble receptor that acts as an antagonist) that
binds to osteoblast cells via Receptor Activator of NF-kappa B Ligand
(RANKL) involved in the signal transduction between osteoblast cells and
osteoclastic progenitor cells, eventually suppressing differentiation of
the progenitor cells into osteoclasts. The balance between the
OCIF/OPG and RANKL is regulated by cytokines and hormones.
Studies on OCIF/OPG-RANKL system have provided important
insights into the pathogenesis of human metabolic bone diseases, leading
to the expectation of OCIF/OPG as a novel candidate for a
therapeutic agent for metabolic bone diseases.

L5 ANSWER 2 OF 9 MEDLINE on STN
ACCESSION NUMBER: 2004142578 MEDLINE
DOCUMENT NUMBER: PubMed ID: 15035105
TITLE: OPG(osteoprotegerin)/OCIF(osteoclastogenesis
inhibitory factor).
AUTHOR: Inoue Daisuke
CORPORATE SOURCE: Department of Medicine and Bioregulatory Sciences,
University of Tokushima Graduate School of Medicine.
SOURCE: Nippon rinsho. Japanese journal of clinical medicine, (2004
Feb) Vol. 62 Suppl 2, pp. 102-6. Ref: 24
Journal code: 0420546. ISSN: 0047-1852.
PUB. COUNTRY: Japan
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
General Review; (REVIEW)
LANGUAGE: Japanese
FILE SEGMENT: Priority Journals
ENTRY MONTH: 200406
ENTRY DATE: Entered STN: 24 Mar 2004
Last Updated on STN: 2 Jun 2004
Entered Medline: 1 Jun 2004

L5 ANSWER 3 OF 9 MEDLINE on STN
ACCESSION NUMBER: 2002443157 MEDLINE
DOCUMENT NUMBER: PubMed ID: 12203706
TITLE: Adrenergic regulation of bone metabolism: possible
involvement of sympathetic innervation of osteoblastic and
osteoclastic cells.
AUTHOR: Togari Akifumi
CORPORATE SOURCE: Department of Pharmacology, School of Dentistry,

Aichi-Gakuin University, Nagoya 464-8650, Japan..
 togariaf@dpc.aichi-gakuin.ac.jp
 SOURCE: Microscopy research and technique, (2002 Jul 15) Vol. 58,
 No. 2, pp. 77-84. Ref: 70
 Journal code: 9203012. ISSN: 1059-910X.
 PUB. COUNTRY: United States
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
 (RESEARCH SUPPORT, NON-U.S. GOV'T)
 General Review; (REVIEW)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 200211
 ENTRY DATE: Entered STN: 31 Aug 2002
 Last Updated on STN: 12 Dec 2002
 Entered Medline: 20 Nov 2002

AB It has been demonstrated that human osteoblastic as well as osteoclastic cells are equipped with adrenergic receptors and neuropeptide receptors and that they constitutively express diffusible axon guidance molecules that are known to function as a chemoattractant and/or chemorepellent for growing nerve fibers. These findings suggest that the extension of axons of sympathetic and peripheral sensory neurons to osteoblastic and osteoclastic cells is required for the dynamic neural regulation of local bone metabolism. Recently, bone resorption modulated by sympathetic stimulation was demonstrated to be associated with ODF (osteoclast differentiation factor) and OCIF (osteoclastogenesis inhibitory factor) produced by osteoblasts/stromal cells. This review summarizes the evidence implicating sympathetic neuron action in bone metabolism. The possible function of osteoclastogenesis, which could result in the initiation of sympathomimetic bone resorption, is also discussed.
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L5 ANSWER 4 OF 9 MEDLINE on STN
 ACCESSION NUMBER: 2002246338 MEDLINE
 DOCUMENT NUMBER: PubMed ID: 11985054
 TITLE: How is bone formed and resorbed?-- molecular mechanisms of bone formation and resorption.
 AUTHOR: Suda Tatsuo
 CORPORATE SOURCE: Research Center for Genomic Medicine, Saitama Medical School, Hidaka 350-1241.
 SOURCE: Rinsho byori. The Japanese journal of clinical pathology, (2002 Mar) Vol. 50, No. 3, pp. 267-72.
 Journal code: 2984781R. ISSN: 0047-1860.
 PUB. COUNTRY: Japan
 DOCUMENT TYPE: (ENGLISH ABSTRACT)
 Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: Japanese
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 200205
 ENTRY DATE: Entered STN: 3 May 2002
 Last Updated on STN: 9 May 2002
 Entered Medline: 8 May 2002

AB Bone has developed as a storage of calcium as well as a supporting tissue in vertebrates. Bone is a complex tissue in which resorption and formation take place throughout life. This process is called bone remodeling. Osteotropic hormones such as 1 alpha,25-dihydroxyvitamin D3[1 alpha,25 (OH) 2D3], parathyroid hormone (PTH) and calcitonin maintain serum calcium homeostasis within a narrow range of 9 to 10 mg/dl by regulating intestinal absorption of calcium and bone remodeling. Bone tissue contains various types of cells, of which bone-forming osteoblasts and bone-resorbing osteoclasts are mainly responsible for bone remodeling. Osteoblasts arise from common progenitors with chondrocytes, myotubes and adipocytes. Recently, four research groups independently identified core-binding protein alpha-1(Cbfa-1) as a key transcription factor for osteoblast differentiation and bone formation, since Cbfa-1 knockout mice

completely lacked bone formation due to maturation arrest of osteoblasts. In contrast, multinucleated osteoclasts are primarily responsible for bone resorption. The recent discovery of new members of tumor necrosis factor (TNF) receptor-ligand family has indicated the precise mechanism by which osteoblasts/stromal cells regulate osteoclast formation. Osteoblasts/stromal cells express a new member of the TNF ligand family "osteoclast differentiation factor (ODF)" as a membrane-associated factor. Osteoclast progenitors which express ODF receptor (RANK) recognize ODF through cell-to-cell interaction with osteoblasts/stromal cells, then differentiate into osteoclasts. Osteoprotegerin (OPG)/osteoclastogenesis inhibitory factor (OCIF) is a soluble decoy receptor for ODF. Thus, ODF, RANK and OPG/OCIF are the three key molecules for osteoclast formation. The discovery of Cbfa-1 and ODF may establish a new way to treat several metabolic bone diseases caused by abnormal bone formation and resorption.

L5 ANSWER 5 OF 9 MEDLINE on STN
 ACCESSION NUMBER: 2001476587 MEDLINE
 DOCUMENT NUMBER: PubMed ID: 11519698
 TITLE: Effects of a bisphosphonate on the expression of bone specific genes after autogenous free bone grafting in rats.
 AUTHOR: Myoung H; Park J Y; Choung P H
 CORPORATE SOURCE: Department of Oral and Maxillofacial Surgery, College of Dentistry and Craniofacial tissue Engineering Laboratory, Seoul National University, Korea.
 SOURCE: Journal of periodontal research, (2001 Aug) Vol. 36, No. 4, pp. 244-51.
 Journal code: 0055107. ISSN: 0022-3484.
 PUB. COUNTRY: Denmark
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
 (RESEARCH SUPPORT, NON-U.S. GOV'T)
 LANGUAGE: English
 FILE SEGMENT: Dental Journals; Priority Journals
 ENTRY MONTH: 200109
 ENTRY DATE: Entered STN: 27 Aug 2001
 Last Updated on STN: 10 Sep 2001
 Entered Medline: 6 Sep 2001

AB The purpose of this study was to evaluate the clinical availability of a bisphosphonate in autogenous free bone grafts. Bisphosphonate (0.01 mg/kg/day) was administered daily after an autogenous free bone graft on a rat calvarium. The effects of a bisphosphonate on the resorption of grafted bone and mRNA expression in bone specific genes, i.e. bone morphogenetic protein 2, bone morphogenetic protein 4, alkaline phosphatase, osteocalcin, osteoclast inhibitory factor and calcitonin receptor, were studied via a reverse transcription-polymerase chain reaction (RT-PCR), real time RT-PCR and tartrate-resistant alkaline phosphatase (TRAP) staining. In a clinical and histomorphological review, bone resorption decreased in the experimental group in contrast to the control group where active bone resorption was observed. Bisphosphonate altered not only the mRNA expression of the bone resorption associated genes but also the bone formation associated genes. The expression of the calcitonin receptor (CTR) mRNA was not detected and the osteoclast inhibitory factor (OCIF) was significantly up-regulated in the experimental group as opposed to the control group. The expressions of osteocalcin and alkaline phosphatase mRNAs were also higher in the experimental group. However, there was no significant difference in the mRNA expression of bone morphogenetic proteins between the two groups. The data suggest the possibility of a clinical application of bisphosphonates for decreasing resorption of grafted bone.

L5 ANSWER 6 OF 9 MEDLINE on STN
 ACCESSION NUMBER: 2000292951 MEDLINE
 DOCUMENT NUMBER: PubMed ID: 10822231
 TITLE: Involvement of osteoprotegerin/osteoclastogenesis

inhibitory factor in the stimulation of osteoclast formation by parathyroid hormone in mouse bone cells.

AUTHOR: Kanzawa M; Sugimoto T; Kanatani M; Chihara K
 CORPORATE SOURCE: Third Division, Department of Medicine, Kobe University School of Medicine, 7-5-1 Kusunoki-cho, Chuo-ku, Kobe 650-0017, Japan.

SOURCE: European journal of endocrinology / European Federation of Endocrine Societies, (2000 Jun) Vol. 142, No. 6, pp. 661-4. Journal code: 9423848. ISSN: 0804-4643.

PUB. COUNTRY: ENGLAND: United Kingdom
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
 (RESEARCH SUPPORT, NON-U.S. GOV'T)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals; Space Life Sciences
 ENTRY MONTH: 200008
 ENTRY DATE: Entered STN: 11 Aug 2000
 Last Updated on STN: 11 Aug 2000
 Entered Medline: 2 Aug 2000

AB OBJECTIVE: Recently, osteoprotegerin (OPG)/osteoclastogenesis inhibitory factor (OCIF) has been shown to inhibit osteoclast differentiation. On the other hand, we have reported that parathyroid hormone (PTH) stimulated osteoclast formation, presumably through a PTH-responsive cAMP-dependent protein kinase (PKA) pathway, in mouse bone cells. DESIGN AND METHODS: The present study was performed to examine how OPG/OCIF expression is regulated by PTH and to further investigate the possible involvement of OPG/OCIF in the stimulation of osteoclast formation by PTH in mouse bone cells. OPG/OCIF mRNA expression was analyzed by Northern hybridization after 24h treatments of mouse whole bone cells and mouse stromal cell line, ST2 cells with PTH or various second messenger analogs. RESULTS: Human (h) PTH(1-34) (10(-10) and 10(-8)mol/l) but not 10(-8)mol/l hPTH(3-34) down-regulated OPG/OCIF mRNA expression in mouse bone cells. Dibutyryl cAMP, but not phorbol ester, an activator of protein kinase C, or A23187, a calcium ionophore, down-regulated it. The same was also observed in ST2 cells, suggesting that stromal cells are responsible for the inhibitory effect of PTH and cAMP analogs on OPG/OCIF mRNA expression in mouse bone cells. CONCLUSIONS: The present study indicates that PTH down-regulates OPG/OCIF mRNA expression through the PKA pathway in stromal cells, which would result in the stimulation of osteoclast formation.

L5 ANSWER 7 OF 9 MEDLINE on STN
 ACCESSION NUMBER: 1999097247 MEDLINE
 DOCUMENT NUMBER: PubMed ID: 9878548
 TITLE: RANK is the essential signaling receptor for osteoclast differentiation factor in osteoclastogenesis.

AUTHOR: Nakagawa N; Kinoshita M; Yamaguchi K; Shima N; Yasuda H; Yano K; Morinaga T; Higashio K
 CORPORATE SOURCE: Research Institute of Life Science, Snow Brand Milk Products Co., Ltd., Tochigi, Japan.. fvb7042@mb.infoweb.ne.jp
 SOURCE: Biochemical and biophysical research communications, (1998 Dec 18) Vol. 253, No. 2, pp. 395-400. Journal code: 0372516. ISSN: 0006-291X.

PUB. COUNTRY: United States
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals; Space Life Sciences
 ENTRY MONTH: 199901
 ENTRY DATE: Entered STN: 2 Feb 1999
 Last Updated on STN: 20 Apr 2002
 Entered Medline: 20 Jan 1999

AB Osteoclast differentiation factor (ODF) is a ligand for osteoclastogenesis-inhibitory factor/osteoprotegerin (OCIF/OPG),

and mediates an essential signal for osteoclastogenesis. Soluble-form ODF binds directly to osteoclast progenitors, suggesting the presence of a membrane-bound receptor for ODF (ODFR) on the cells. To understand the ODF-mediated signal transduction mechanism in osteoclastogenesis, we molecularly cloned ODFR from a mouse macrophage-like osteoclast progenitor cell line, C7. Nucleotide sequence analysis revealed that ODFR is identical to RANK, a recently identified member of the tumor necrosis factor receptor (TNFR) family, which is involved in the regulation of dendritic cell function. A polyclonal antibody against the extracellular domain of RANK induced osteoclastogenesis in the presence of macrophage colony-stimulating factor (M-CSF). In contrast, both a genetically engineered soluble RANK and Fab fragment of the antibody blocked the binding of ODF to RANK and ODF-mediated osteoclastogenesis. These results indicate that RANK is the signaling receptor essential for ODF-mediated osteoclastogenesis.

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L5 ANSWER 8 OF 9 MEDLINE on STN
 ACCESSION NUMBER: 1998321175 MEDLINE
 DOCUMENT NUMBER: PubMed ID: 9647741
 TITLE: Severe osteoporosis in mice lacking osteoclastogenesis inhibitory factor/osteoprotegerin.
 AUTHOR: Mizuno A; Amizuka N; Irie K; Murakami A; Fujise N; Kanno T; Sato Y; Nakagawa N; Yasuda H; Mochizuki S; Gomibuchi T; Yano K; Shima N; Washida N; Tsuda E; Morinaga T; Higashio K; Ozawa H
 CORPORATE SOURCE: Research Institute of Life Science, Snow Brand Milk Products, Co., Ltd., Tochigi, Japan.
 SOURCE: Biochemical and biophysical research communications, (1998 Jun 29) Vol. 247, No. 3, pp. 610-5. Journal code: 0372516. ISSN: 0006-291X.
 PUB. COUNTRY: United States
 DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
 LANGUAGE: English
 FILE SEGMENT: Priority Journals
 ENTRY MONTH: 199807
 ENTRY DATE: Entered STN: 17 Aug 1998
 Last Updated on STN: 17 Aug 1998
 Entered Medline: 31 Jul 1998
 AB Osteoclasts are multinucleated cells that resorb bone. Osteoclastogenesis inhibitory factor (OCIF), also called osteoprotegerin (OPG), acts as a naturally occurring decoy receptor for osteoclast differentiation factor, which mediates an essential signal to osteoclast progenitors for their differentiation into osteoclasts. Here we show that the OCIF/OPG knockout mice exhibited severe osteoporosis due to enhanced osteoclastogenesis when they grew to be adults. These mice were viable and fertile. They exhibited marked bone loss accompanied by destruction of growth plate and lack of trabecular bone in their femurs. The strength of their bones dramatically decreased. These results demonstrate that OCIF/OPG is a key factor acting as a negative regulator against osteoclastogenesis. The OCIF/OPG knockout mice provide the first animal model for osteoporosis without other obvious abnormalities.

=>

FILE 'CAPLUS' ENTERED AT 18:36:21 ON 26 MAY 2007
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FILE COVERS 1907 - 26 May 2007 VOL 146 ISS 23
FILE LAST UPDATED: 25 May 2007 (20070525/ED)

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=> E GOTO MASA AKI/IN 25

E1	3	GOTO MARIKO/IN
E2	1	GOTO MARUTOMO/IN
E3	29 -->	GOTO MASA AKI/IN
E4	22	GOTO MASAFUMI/IN
E5	8	GOTO MASA HARU/IN
E6	15	GOTO MASA HIDE/IN
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E24	59	GOTO MASA OKI/IN
E25	16	GOTO MASA OMI/IN

=> S (E3) AND (BONE, OCIF)

29 "GOTO MASA AKI"/IN
205162 BONE
23241 BONES
211698 BONE
(BONE OR BONES)
143 OCIF
1 OCIFS
143 OCIF
(OCIF OR OCIFS)
0 BONE, OCIF
(BONE(W)OCIF)

L1 0 ("GOTO MASAAKI"/IN) AND (BONE, OCIF)

=> S (E3) AND (OCIF)

29 "GOTO MASAAKI"/IN

143 OCIF

1 OCIFS

143 OCIF

(OCIF OR OCIFS)

L2 4 ("GOTO MASAAKI"/IN) AND (OCIF)

=> DIS L2 1 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L2 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:1109548 CAPLUS

DOCUMENT NUMBER: 145:450102

TITLE: cDNA cloning and sequences for protein OSIF
(osteoclastogenesis inhibitory factor), and methods
for its production in mammalian cells

INVENTOR(S): Goto, Masaaki; Tsuda, Eisuke; Mochizuki,
Shin'ichi; Yano, Kazuki; Kobayashi, Fumie; Shima,
Nobuyuki; Yasuda, Hisataka; Nakagawa, Nobuaki;
Morinaga, Tomonori; Ueda, Masatsugu; Higashio, Kanji

PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan

SOURCE: U.S., 85pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 7125686	B1	20061024	US 1997-915004	19970820
IL 117175	A	20051120	IL 1996-117175	19960219
CA 2213469	A1	19960829	CA 1996-2213469	19960220
WO 9626217	A1	19960829	WO 1996-JP374	19960220
W: AU, CA, CN, FI, HU, JP, KR, MX, NO, NZ, RU, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
ZA 9601334	A	19970820	ZA 1996-1334	19960220
CN 1175956	A	19980311	CN 1996-192019	19960220
RU 2238948	C2	20041027	RU 2002-120050	19960220
PT 816380	T	20041231	PT 1996-902484	19960220
ES 2227579	T3	20050401	ES 1996-902484	19960220
EP 1528103	A1	20050504	EP 2004-76464	19960220
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
CN 1763194	A	20060426	CN 2005-10091137	19960220
TW 538049	B	20030621	TW 1996-85108022	19960703
US 2002051969	A1	20020502	US 1998-62113	19980417
US 7205397	B2	20070417		
US 6919434	B1	20050719	US 1999-338063	19990623
US 2003153048	A1	20030814	US 2002-232858	20020903
US 6855808	B2	20050215		
US 2004142426	A1	20040722	US 2004-785109	20040225
US 2004143859	A1	20040722	US 2004-785114	20040225
JP 2005013217	A	20050120	JP 2004-63029	20040305
US 2005014229	A1	20050120	US 2004-929958	20040831
US 2005026837	A1	20050203	US 2004-929748	20040831
US 2005118682	A1	20050602	US 2004-979303	20041103
US 2005124054	A1	20050609	US 2004-979654	20041103

PRIORITY APPLN. INFO.:

JP 1995-54977	A	19950220
JP 1995-207508	A	19950721
WO 1996-JP374	A2	19960220

CN 1996-192019	A3 19960220
EP 1996-902484	A3 19960220
JP 1996-525553	A 19960220
RU 1997-115710	A 19960220
US 1997-915004	A3 19970820
US 2002-232858	A1 20020903
JP 2003-177872	A3 20030623

ABSTRACT:

The invention provides a protein which inhibits osteoclast differentiation and/or maturation, termed osteoclastogenesis inhibitory factor (OCIF), as well as a procedure to produce the OCIF protein. The ***OCIF*** protein was isolated from human embryonic lung fibroblasts IMR-90. The inventors have established a method for accumulating the protein to a high concentration by culturing IMR-90 cells on alumina ceramic pieces, which function as cell adherence matrixes. The OSIF protein has a mol. weight (by SDS-PAGE) of 60 kD under reducing conditions and mol. wts. of 60 kD (a monomer) and 120 kD (a homodimer) under non-reducing conditions, and has affinity for both cation-exchange resins and heparin. Provided are cDNA and protein sequences for OCIF, as well as antibodies having specific affinity for the protein or a method for determining protein concentration using these antibodies.

REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> DIS L2 2 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L2 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:223074 CAPLUS
DOCUMENT NUMBER: 130:222129
TITLE: Method for diagnosing bone dysbolism
INVENTOR(S): Yano, Kazuki; Kobayashi, Fumie; Goto, Masaaki
; Washida, Naohiro; Tsuda, Eisuke; Higashio, Kanji;
Yamada, Yoshiji
PATENT ASSIGNEE(S): Snow Brand Milk Products Co., Ltd., Japan
SOURCE: PCT Int. Appl., 36 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9915691	A1	19990401	WO 1998-JP3421	19980731
W: AU, CA, CN, HU, IL, JP, KR, MX, NO, NZ, RU, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2269114	A1	19990324	CA 1998-2269114	19980731
AU 9884617	A	19990412	AU 1998-84617	19980731
AU 739304	B2	20011011		
EP 974671	A1	20000126	EP 1998-935306	19980731
EP 974671	B1	20060531		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE, PT, IE, FI				
HU 200002062	A2	20001028	HU 2000-2062	19980731
NZ 335759	A	20020201	NZ 1998-335759	19980731
RU 2203497	C2	20030427	RU 1999-113447	19980731
IL 129535	A	20030706	IL 1998-129535	19980731
AT 328281	T	20060615	AT 1998-935306	19980731
ZA 9806974	A	19990204	ZA 1998-6974	19980804
MX 9904633	A	20000930	MX 1999-4633	19990519
NO 9902472	A	19990521	NO 1999-2472	19990521

US 2002004207	A1	20020110	US 1999-308800		19990524
US 6693175	B2	20040217			
US 2004033533	A1	20040219	US 2003-641088		20030815
US 6998242	B2	20060214			
PRIORITY APPLN. INFO.:			JP 1997-276475	A	19970924
			WO 1998-JP3421	W	19980731
			US 1999-308800	A1	19990524

ABSTRACT:

A method for diagnosing bone dysbolism, in particular osteoporosis and joint diseases characterized by measuring the concentration of osteoclastogenesis inhibitory factors (OCIFs) in the bodily fluid; a monoclonal antibody equally recognizing monomeric and dimeric OCIFs; a monoclonal antibody selectively recognizing the dimeric OCIF alone; and OCIF assay kits which contain the monoclonal antibodies of the above two types, recognizing different epitopes of OCIFs, and having a high affinity and a dissociation constant with an antigen of 2×10^{-7} M or below. Immunization of Balb/c mice by i.p. injection, collection of spleen of the immunized mice, hybridization with mouse myeloma P3x63-AG8.653, and growth of the monoclonal antibody-producing hybridoma by the ascite method were shown. The above antibodies and kits are useful in diagnosing bone dysbolism, in particular, osteoporosis and joint diseases or anal. reagents for laboratory use, etc.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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=> DIS L2 3 IBIB IABS
THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y
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L2 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:708857 CAPLUS

DOCUMENT NUMBER: 129:326927

TITLE: Preparation of osteoclastogenesis inhibitory factor-binding molecule from mouse and cloning and expression of its encoding cDNA

INVENTOR(S) : Yamaguchi, Kyoji; Yasuda, Hisataka; Nakagawa, Nobuaki;
Shima, Nobuyuki; Kinosaki, Masahiko; Tsuda, Eisuke;
Goto, Masaaki; Yano, Kazuki; Tomoyasu,
Akihiro; Kobayashi, Fumie; et al.

PATENT ASSIGNEE(S) : Snow Brand Milk Products Co., Ltd., Japan

SOURCE: PCT Int. Appl., 151 pp.

CODEN: PIXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9846644	A1	19981022	WO 1998-JP1728	19980415
W: AU, CA, CN, HU, IL, JP, KR, MX, NO, NZ, RU, US				
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CA 2257247	A1	19981022	CA 1998-2257247	19980415
ZA 9803159	A	19981103	ZA 1998-3159	19980415
AU 9868518	A	19981111	AU 1998-68518	19980415
AU 735355	B2	20010705		
EP 911342	A1	19990428	EP 1998-914034	19980415
EP 911342	B1	20060531		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE, PT, IE, FI, CY				
CN 1222917	A	19990714	CN 1998-800477	19980415
HU 200000717	A2	20000628	HU 2000-717	19980415

NZ 332995	A	20000728	NZ 1998-332995	19980415
JP 3523650	B2	20040426	JP 1998-543741	19980415
RU 2238949	C2	20041027	RU 1999-100615	19980415
EP 1657255	A1	20060517	EP 2005-17241	19980415
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE, PT, IE, FI, CY				
AT 328006	T	20060615	AT 1998-914034	19980415
PT 911342	T	20060831	PT 1998-914034	19980415
ES 2263204	T3	20061201	ES 1998-914034	19980415
KR 2000016598	A	20000325	KR 1998-710194	19981212
NO 9805848	A	19990215	NO 1998-5848	19981214
NO 322632	B1	20061106		
MX 9810700	A	20000831	MX 1998-10700	19981215
US 2003176647	A1	20030918	US 2002-167182	20020611
US 2003208045	A1	20031106	US 2003-460623	20030613
US 7192718	B2	20070320		
JP 2004041195	A	20040212	JP 2003-169309	20030613
US 2005003457	A1	20050106	US 2004-854300	20040527
JP 2005176847	A	20050707	JP 2004-381995	20041228
US 2005208580	A1	20050922	US 2005-135521	20050524
US 2007009520	A1	20070111	US 2006-513178	20060831
PRIORITY APPLN. INFO.:			JP 1997-97808	A 19970415
			JP 1997-151434	A 19970609
			JP 1997-217897	A 19970812
			JP 1997-224803	A 19970821
			JP 1997-332241	A 19971202
			EP 1998-914034	A3 19980415
			JP 1998-543741	A3 19980415
			WO 1998-JP1728	W 19980415
			US 1998-202455	A3 19981215
			US 2002-167182	A1 20020611
			JP 2003-169309	A3 20030613
			US 2004-854300	A1 20040527

ABSTRACT:

A osteoclastogenesis inhibitory factor (OCIF)-binding mol. (OBM) is prepared from the membrane fractions of mouse osteoblastoid stroma cell line ST2 and characterized. OBM exhibits a mol. weight of 30,000-40,000 or 40,000±4,000 by SDS-PAGE, or 90,000-110,000 if crosslinked. The cDNA encoding OBM is isolated from ST2 cell by using the primers derived from the partial peptide sequence of OBM, and its amino acid sequence deduced. Preparation of soluble form OBM

(amino acids 72-316 or 76-316) in transgenic Escherichia coli as a fusion protein with thioredoxin was also shown. Claimed are a method for screening a substance regulating the expression of OBM, a substance inhibiting or modifying the biol. activity of OBM, or an OBM receptor, medicinal compns. containing the substances thus obtained, and antibodies to OBM and drugs containing them.

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> DIS L2 4 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L2 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:628559 CAPLUS

DOCUMENT NUMBER: 125:271959

TITLE: Cloning and expression of cDNA for human osteoclastogenesis inhibitory factor and variants and mutants and their clinical uses

INVENTOR(S): Goto, Masaaki; Tsuda, Eisuke; Mochizuki, Shin'ichi; Yano, Kazuki; Kobayashi, Fumie; Shima, Nobuyuki; Yasuda, Hisataka; Nakagawa, Nobuaki; Morinaga, Tomonori; et al.; et al.

PATENT ASSIGNEE(S): Snow Brand Milk Products Co., Ltd., Japan; Goto Masaaki
 SOURCE: PCT Int. Appl., 183 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9626217	A1	19960829	WO 1996-JP374	19960220
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IL 117175	A	20051120	IL 1996-117175	19960219
CA 2213469	A1	19960829	CA 1996-2213469	19960220
AU 9646773	A	19960911	AU 1996-46773	19960220
AU 702557	B2	19990225		
ZA 9601334	A	19970820	ZA 1996-1334	19960220
EP 816380	A1	19980107	EP 1996-902484	19960220
EP 816380	B1	20040825		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
CN 1175956	A	19980311	CN 1996-192019	19960220
HU 9900422	A2	19990628	HU 1999-422	19960220
HU 9900422	A3	20021128		
HU 224570	B1	20051028		
RU 2194714	C2	20021220	RU 1997-115710	19960220
JP 3502102	B2	20040302	JP 1996-525553	19960220
AT 274580	T	20040915	AT 1996-902484	19960220
RU 2238948	C2	20041027	RU 2002-120050	19960220
PT 816380	T	20041231	PT 1996-902484	19960220
ES 2227579	T3	20050401	ES 1996-902484	19960220
EP 1528103	A1	20050504	EP 2004-76464	19960220
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CN 1763194	A	20060426	CN 2005-10091137	19960220
TW 538049	B	20030621	TW 1996-85108022	19960703
NO 9703801	A	19971020	NO 1997-3801	19970819
NO 318898	B1	20050518		
FI 9703402	A	19971017	FI 1997-3402	19970820
US 7125686	B1	20061024	US 1997-915004	19970820
US 2002051969	A1	20020502	US 1998-62113	19980417
US 7205397	B2	20070417		
US 6919434	B1	20050719	US 1999-338063	19990623
US 2003153048	A1	20030814	US 2002-232858	20020903
US 6855808	B2	20050215		
JP 2004000237	A	20040108	JP 2003-177872	20030623
JP 3793180	B2	20060705		
US 2004142426	A1	20040722	US 2004-785109	20040225
US 2004143859	A1	20040722	US 2004-785114	20040225
JP 2005013217	A	20050120	JP 2004-63029	20040305
US 2005014229	A1	20050120	US 2004-929958	20040831
US 2005026837	A1	20050203	US 2004-929748	20040831
US 2005118682	A1	20050602	US 2004-979303	20041103
US 2005124054	A1	20050609	US 2004-979654	20041103

PRIORITY APPLN. INFO.:

JP 1995-54977	A	19950220
JP 1995-207508	A	19950721
JP 1996-525553	A	19960220
CN 1996-192019	A3	19960220
EP 1996-902484	A3	19960220
RU 1997-115710	A	19960220
WO 1996-JP374	W	19960220
US 1997-915004	A3	19970820
US 2002-232858	A1	20020903
JP 2003-177872	A3	20030623

ABSTRACT:

Osteoclastogenesis inhibitory factor (OCIF), a novel protein having an activity of suppressing the differentiation and/or maturation of osteoclasts, is prepared from the culture of human fibroblast IMR-90 and characterized. This protein has a mol. weight of about 60 kDa under reductive conditions or about 120 kDa under non-reductive conditions. It also exhibits affinity to cationic exchanger and heparin. The cDNA encoding OCIF, variants OCIF2.apprx.5, and its mutants are provided, and their amino acid sequence deduced. Expression of the cDNA for OCIF in transgenic host such as CHO cell and purification of recombinant OCIF, and cloning of genomic DNA for human OCIF are demonstrated. Monoclonal/polyclonal antibodies to OCIF are also prepared for use in the assay of

OCIF.

=> FIL STNGUIDE

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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22.99

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

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FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: May 25, 2007 (20070525/UP).

=> FIL CAPLUS

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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23.05

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

SESSION

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FILE COVERS 1907 - 26 May 2007 VOL 146 ISS 23

FILE LAST UPDATED: 25 May 2007 (20070525/ED)

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E19	26	TSUDA HIDEO/IN
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E24	57	TSUDA HIDEYUKI/IN
E25	2	TSUDA HIROAKI/IN

=> S (E3) AND (OCIF)

15 "TSUDA EISUKE"/IN
143 OCIF
1 OCIFS
143 OCIF

(OCIF OR OCIFS)

L3 10 ("TSUDA EISUKE"/IN) AND (OCIF)

=> DIS L3 1 SAM

L3 ANSWER 1 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

INCL 435069100; 530350000; 530399000; 530412000

CC 3-3 (Biochemical Genetics)

Section cross-reference(s): 1, 6, 13

TI cDNA cloning and sequences for protein OSIF (osteoclastogenesis inhibitory factor), and methods for its production in mammalian cells

ST sequence OSIF osteoclastogenesis inhibitory factor cDNA human; human fibroblast cloning OSIF osteoclastogenesis inhibitory factor prodn

IT Animal cell line

(293, EBNA, expression host; cDNA cloning and sequences for protein OSIF (osteoclastogenesis inhibitory factor), and methods for its production in mammalian cells)

IT Animal cell line

(CHO, expression host; cDNA cloning and sequences for protein OSIF (osteoclastogenesis inhibitory factor), and methods for its production in mammalian cells)

IT Animal cell line

(IMR-90, expression host; cDNA cloning and sequences for protein OSIF (osteoclastogenesis inhibitory factor), and methods for its production in mammalian cells)

IT Fibroblast

(OCIF protein isolated from; cDNA cloning and sequences for protein OSIF (osteoclastogenesis inhibitory factor), and methods for its production in mammalian cells)

IT Proteins

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)

(OSIF (osteoclastogenesis inhibitory factor); cDNA cloning and
sequences for protein OSIF (osteoclastogenesis inhibitory factor), and
methods for its production in mammalian cells)

IT Gel electrophoresis

(OSIF mol. weight determined using; cDNA cloning and sequences for protein

OSIF

(osteoclastogenesis inhibitory factor), and methods for its production in
mammalian cells)

IT Epitopes

Genetic engineering

(OSIF; cDNA cloning and sequences for protein OSIF (osteoclastogenesis
inhibitory factor), and methods for its production in mammalian cells)

IT Gene, animal

RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified);
PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES (Uses)

(OSIF; cDNA cloning and sequences for protein OSIF (osteoclastogenesis
inhibitory factor), and methods for its production in mammalian cells)

IT Cation exchangers

(affinity for; cDNA cloning and sequences for protein OSIF
(osteoclastogenesis inhibitory factor), and methods for its production in
mammalian cells)

IT Ceramics

(alumina ceramic pieces, as cell adherence matrixes, in protein production;
cDNA cloning and sequences for protein OSIF (osteoclastogenesis
inhibitory factor), and methods for its production in mammalian cells)

IT Antiosteoporotic agents

Drug screening

Human

Molecular cloning

Osteoporosis

Protein sequences

cDNA sequences

(cDNA cloning and sequences for protein OSIF (osteoclastogenesis
inhibitory factor), and methods for its production in mammalian cells)

IT Antibodies and Immunoglobulins

RL: ARG (Analytical reagent use); DGN (Diagnostic use); THU (Therapeutic
use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(cDNA cloning and sequences for protein OSIF (osteoclastogenesis
inhibitory factor), and methods for its production in mammalian cells)

IT Osteoclast

(differentiation and/or maturation, modulating; cDNA cloning and
sequences for protein OSIF (osteoclastogenesis inhibitory factor), and
methods for its production in mammalian cells)

IT Animal cell

(mammalian, expression host; cDNA cloning and sequences for protein
OSIF (osteoclastogenesis inhibitory factor), and methods for its production
in mammalian cells)

IT Signal peptides

RL: BSU (Biological study, unclassified); BIOL (Biological study)

(of OSIF; cDNA cloning and sequences for protein OSIF
(osteoclastogenesis inhibitory factor), and methods for its production in
mammalian cells)

IT Heating

(osteoclast differentiation inhibitory activity of OSIF decreased with;
cDNA cloning and sequences for protein OSIF (osteoclastogenesis
inhibitory factor), and methods for its production in mammalian cells)

IT Cell differentiation

(osteoclast, modulating; cDNA cloning and sequences for protein OSIF
(osteoclastogenesis inhibitory factor), and methods for its production in
mammalian cells)

IT 9005-49-6D, Heparin, derivs.
 RL: BUU (Biological use, unclassified); BIOL (Biological study); USES (Uses)
 (affinity for; cDNA cloning and sequences for protein OSIF (osteoclastogenesis inhibitory factor), and methods for its production in mammalian cells)

IT 913068-60-7P 913120-05-5P 913120-06-6P 913120-07-7P
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (amino acid sequence, OSIF peptide; cDNA cloning and sequences for protein OSIF (osteoclastogenesis inhibitory factor), and methods for its production in mammalian cells)

IT 913120-08-8P 913120-09-9P 913120-15-7P 913120-16-8P 913120-17-9P 913120-18-0P
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (amino acid sequence; cDNA cloning and sequences for protein OSIF (osteoclastogenesis inhibitory factor), and methods for its production in mammalian cells)

IT 1344-28-1, Alumina, biological studies
 RL: BSU (Biological study, unclassified); BIOL (Biological study)
 (ceramic pieces, as cell adherence matrixes, in protein production; cDNA cloning and sequences for protein OSIF (osteoclastogenesis inhibitory factor), and methods for its production in mammalian cells)

IT 913120-10-2P 913120-11-3P 913120-12-4P 913120-13-5P 913120-14-6P
 RL: BPN (Biosynthetic preparation); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (nucleotide sequence; cDNA cloning and sequences for protein OSIF (osteoclastogenesis inhibitory factor), and methods for its production in mammalian cells)

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 913121-11-6
 RL: PRP (Properties)
 (unclaimed nucleotide sequence; cDNA cloning and sequences for protein OSIF (osteoclastogenesis inhibitory factor), and methods for its production in mammalian cells)

IT 913120-65-7 913120-66-8 913120-67-9 913120-68-0 913120-69-1
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 RL: PRP (Properties)
 (unclaimed protein sequence; cDNA cloning and sequences for protein OSIF (osteoclastogenesis inhibitory factor), and methods for its production in mammalian cells)

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L3 ANSWER 2 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2004:584657 CAPLUS
DOCUMENT NUMBER: 141:145689
TITLE: Remedies and preventives for bone metabolism disorder
containing osteoclastogenesis inhibitory
factor-polysaccharide composites
INVENTOR(S): Yamamoto, Shinichi; Okada, Junichi; Kurihara, Atsushi;
Numasawa, Taku; Kondo, Junichi; Tsuda, Eisuke
; Mochizuki, Shinichi; Miyazaki, Hideki; Nishi,
Hirotaka
PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 41 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 2004203747	A	20040722	JP 2002-371193	20021224
PRIORITY APPLN. INFO.:			JP 2002-371193	20021224

ABSTRACT:

The invention relates to remedies and/or preventives for bone metabolism disorder, characterized by containing composite compds. consisting of osteoclastogenesis inhibitory factor (OCIF) or its related compound and polysaccharide. A recombinant human OCIF (dimer) was reacted with dextran sulfate sodium sulfur to make an injection. The composite showed lower heparin adsorption rate. Also, the OCIF content in the composite was analyzed by ELISA.

=> DIS L3 3 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L3 ANSWER 3 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2003:4784 CAPLUS
DOCUMENT NUMBER: 138:61269
TITLE: A complex comprising OCIF and polysaccharide
INVENTOR(S): Yamamoto, Shinichi; Okada, Junichi; Kurihara, Atsushi;
Numazawa, Taku; Kondo, Junichi; Tsuda, Eisuke
; Mochizuki, Shinichi; Nishi, Hirotaka; Miyazaki,
Hideki
PATENT ASSIGNEE(S): Sankyo Company Limited, Japan
SOURCE: Eur. Pat. Appl., 31 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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EP 1270015	A2	20030102	EP 2002-254497	20020626
EP 1270015	A3	20040225		
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IN 2002CA00387	A	20050311	IN 2002-CA387	20020625
US 2003045456	A1	20030306	US 2002-183091	20020627

ZA 2002005164	A	20030324	ZA 2002-5164	20020627
CA 2392383	A1	20021229	CA 2002-2392383	20020628
NO 2002003144	A	20021230	NO 2002-3144	20020628
AU 200250719	A	20030102	AU 2002-50719	20020628
AU 783126	B2	20050929		
HU 200202119	A2	20030428	HU 2002-2119	20020628
JP 2003160601	A	20030603	JP 2002-190407	20020628
BR 2002002439	A	20030610	BR 2002-2439	20020628
SG 98059	A1	20030820	SG 2002-3944	20020628
RU 2232594	C2	20040720	RU 2002-117385	20020628
CN 1442201	A	20030917	CN 2002-155849	20020629
US 2003139325	A1	20030724	US 2003-364045	20030211
US 2006084595	A1	20060420	US 2005-254836	20051021
PRIORITY APPLN. INFO.:			JP 2001-198985	A 20010629
			US 2002-183091	A1 20020627

ABSTRACT:

A novel complex comprising at least one substance selected from the group consisting of osteoclastogenesis-inhibitory factor (OCIF), analogs thereof, and variants thereof, which is bound to at least one substance selected from the group consisting of polysaccharides and derivs. thereof shows prolonged retention in the bloodstream after administration making it useful in the treatment and prophylaxis of bone metabolic diseases.

=> DIS L3 4 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L3 ANSWER 4 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:290857 CAPLUS
DOCUMENT NUMBER: 132:284272
TITLE: Remedies containing osteoclastogenesis inhibitory factor for bone metabolic errors
INVENTOR(S): Mochizuki, Shinichi; Fujise, Nobuaki; Masuyama, Chiharu; Tsuda, Eisuke; Higashio, Kanji
PATENT ASSIGNEE(S): Snow Brand Milk Products Co., Ltd., Japan; Sankyo Co., Ltd.
SOURCE: PCT Int. Appl., 32 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000024416	A1	20000504	WO 1999-JP5963	19991028
W: AU, BR, CA, CN, CZ, HU, ID, IL, IN, JP, KR, MX, NO, NZ, PL, RU, TR, US, ZA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2347107	A1	20000504	CA 1999-2347107	19991028
AU 9964877	A	20000515	AU 1999-64877	19991028
AU 755422	B2	20021212		
BR 9914834	A	20010814	BR 1999-14834	19991028
EP 1127578	A1	20010829	EP 1999-952793	19991028
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
TR 200101146	T2	20010921	TR 2001-200101146	19991028
HU 200104126	A2	20020328	HU 2001-4126	19991028
TW 529954	B	20030501	TW 1999-88118658	19991028
RU 2223782	C2	20040220	RU 2001-114216	19991028
NZ 511506	A	20040227	NZ 1999-511506	19991028

JP 3860415	B2	20061220	JP 2000-578024	19991028
US 2001031725	A1	20011018	US 2001-834008	20010412
US 6919312	B2	20050719		
ZA 2001003296	A	20011025	ZA 2001-3296	20010423
IN 2001KN00461	A	20050311	IN 2001-KN461	20010424
NO 2001002106	A	20010621	NO 2001-2106	20010427
PRIORITY APPLN. INFO.:			JP 1998-322874	A 19981028
			WO 1999-JP5963	W 19991028

ABSTRACT:

The invention relates to novel remedies for bone metabolic errors. These remedies comprise at least one member selected from the group consisting of osteoclastogenesis inhibitory factor (OCIF), analogs thereof and variants thereof and polysaccharides or derivs. thereof. As the polysaccharides or derivs. thereof, use may be made of heparin, dextran sulfate, etc. These remedies have excellent therapeutic effects on bone metabolic errors such as osteoporosis, hypercalcemia and rheumatoid arthritis and can sustain the activities over a long time, which makes them highly useful as drugs. An injection solution was formulated containing osteoclastogenesis inhibitory factor 500 µg, heparin 2 mg and 0.15 M NaCl- and 0.01 % Tween 80-containing 10 mM phosphate buffer.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> DIS L3 5 IBIB IABS
THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L3 ANSWER 5 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2000:198053 CAPLUS
DOCUMENT NUMBER: 132:232381
TITLE: Proteins having osteoclastogenesis inhibitory factor (OCIF) inhibitory activity, their purification from osteoclasts, and uses for drug screening and pharmaceuticals
INVENTOR(S): Kobayashi, Yukinao; Hageta, Shigeyuki; Yamaguchi, Kyoji; Tsuda, Eisuke; Higashio, Kanji; Miyata, Takashi; Yamada, Takeo; Kumekawa, Masayoshi
PATENT ASSIGNEE(S): Snow Brand Milk Products Co., Ltd., Japan; Sankyo Co., Ltd.
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	----	-----	-----	-----
JP 2000086697	A	20000328	JP 1998-274408	19980910
PRIORITY APPLN. INFO.:			JP 1998-274408	19980910

ABSTRACT:

The proteins show affinity for OCIF by binding to 4 Cys-rich domains at the N-terminal of OCIF, mol. weight .apprx.140,000 ± 10,000 kDa (SDS-PAGE under nonreducing condition), and apparent mol. weight of crosslinked products with monomer-type OCIF of .apprx.200,000 ± 20,000 kDa (SDS-PAGE under nonreducing condition). The proteins are useful for screening of substances which induce or suppress expression of the proteins, substances which enhance or inhibit bone resorption by osteoclasts, or substances which enhance or inhibit the activity of OCIF, and for pharmaceuticals, especially for treatment and diagnosis of metabolic bone diseases. The proteins were purified by solubilization of membrane proteins from rabbit osteoclast membrane

fractions and affinity chromatog. using an OCIF-immobilized column.

=> DIS L3 6 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L3 ANSWER 6 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:772206 CAPLUS

DOCUMENT NUMBER: 132:21557

TITLE: Cloning of cDNA for protein capable of binding to the osteoclastogenesis inhibitory factor-binding molecule (OBM) from mice

INVENTOR(S): Yamaguchi, Kyouji; Shima, Nobuyuki; Tsuda, Eisuke; Morinaga, Tomonori; Higashio, Kanji

PATENT ASSIGNEE(S): Snow Brand Milk Products Co., Ltd., Japan; Sankyo Co., Ltd.

SOURCE: Jpn. Kokai Tokkyo Koho, 18 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 11332581	A	19991207	JP 1998-316973	19981020
PRIORITY APPLN. INFO.:			JP 1998-76232	A 19980324

ABSTRACT:

The cDNA encoding for a protein capable of binding to novel osteoclastogenesis inhibitory factor (OCIF)-binding mol. (OBM), or OBM-BP, is isolated from mice. OBM prepared from mouse osteoblastoid stroma cell line ST2 was used for cloning the cDNA for membrane-binding type OBM-BP (clone pOBM-BP1) and secretion-type sOBM-BP (clone pCEPsOBM-BP) from mouse macrophage-like cell line C7. The sOBM-BP-mediated induction of osteoclastogenesis of the cultured spleen cells was also demonstrated. Antibodies to OBM-BP (or sOBM-BP), methods of recombinant preparation of the proteins, methods of immunoassay of OBM-BP, therapeutics containing OBM-BP, and methods of screening inhibitors against the binding between OBM and OBM-BP are also claimed.

=> DIS L3 7 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L3 ANSWER 7 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:378119 CAPLUS

DOCUMENT NUMBER: 131:30647

TITLE: Transgenic animals lacking osteoclastogenesis inhibitory factor (OCIF)

INVENTOR(S): Mizuno, Atsuko; Murakami, Akihiko; Fujise, Nobuaki; Sato, Yasushi; Kanno, Takeshi; Tsuda, Eisuke; Morinaga, Tomonori; Higashio, Kanji

PATENT ASSIGNEE(S): Snow Brand Milk Products Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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JP 11155420	A	19990615	JP 1997-332240	19971202
EP 922760	A2	19990616	EP 1998-122542	19981201
EP 922760	A3	20000112		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
CA 2254949	A1	19990602	CA 1998-2254949	19981202
PRIORITY APPLN. INFO.:			JP 1997-332240	A 19971202

ABSTRACT:

Transgenic animals incapable of forming endogenous OCIF develop bone metabolic disorders such as osteoporosis and are useful for screening of prophylactic and/or therapeutic agents for bone metabolic disorders. Cloning of mouse OCIF gene, preparation of a targeting vector to disrupt exon 2 of ***OCIF*** gene, introduction of the targeting vector to ES cells, transplantation of the targeted ES clones to a foster mother, delivery of newborns, selection of heterozygous mice, and production of homozygous mice by breeding were shown. The OCIF-deficient homozygous transgenic mice developed osteoporosis.

=> DIS L3 8 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L3 ANSWER 8 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:223074 CAPLUS

DOCUMENT NUMBER: 130:222129

TITLE: Method for diagnosing bone dysbolism

INVENTOR(S): Yano, Kazuki; Kobayashi, Fumie; Goto, Masaaki; Washida, Naohiro; Tsuda, Eisuke; Higashio, Kanji; Yamada, Yoshiji

PATENT ASSIGNEE(S): Snow Brand Milk Products Co., Ltd., Japan

SOURCE: PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9915691	A1	19990401	WO 1998-JP3421	19980731
W: AU, CA, CN, HU, IL, JP, KR, MX, NO, NZ, RU, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2269114	A1	19990324	CA 1998-2269114	19980731
AU 9884617	A	19990412	AU 1998-84617	19980731
AU 739304	B2	20011011		
EP 974671	A1	20000126	EP 1998-935306	19980731
EP 974671	B1	20060531		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE, PT, IE, FI				
HU 200002062	A2	20001028	HU 2000-2062	19980731
NZ 335759	A	20020201	NZ 1998-335759	19980731
RU 2203497	C2	20030427	RU 1999-113447	19980731
IL 129535	A	20030706	IL 1998-129535	19980731
AT 328281	T	20060615	AT 1998-935306	19980731
ZA 9806974	A	19990204	ZA 1998-6974	19980804
MX 9904633	A	20000930	MX 1999-4633	19990519
NO 9902472	A	19990521	NO 1999-2472	19990521
US 2002004207	A1	20020110	US 1999-308800	19990524
US 6693175	B2	20040217		
US 2004033533	A1	20040219	US 2003-641088	20030815
US 6998242	B2	20060214		

PRIORITY APPLN. INFO.:

JP 1997-276475 A 19970924
WO 1998-JP3421 W 19980731
US 1999-308800 A1 19990524

ABSTRACT:

A method for diagnosing bone dysbolism, in particular osteoporosis and joint diseases characterized by measuring the concentration of osteoclastogenesis inhibitory factors (OCIFs) in the bodily fluid; a monoclonal antibody equally recognizing monomeric and dimeric OCIFs; a monoclonal antibody selectively recognizing the dimeric OCIF alone; and OCIF assay kits which contain the monoclonal antibodies of the above two types, recognizing different epitopes of OCIFs, and having a high affinity and a dissociation constant with an antigen of 2×10^{-7} M or below. Immunization of Balb/c mice by i.p. injection, collection of spleen of the immunized mice, hybridization with mouse myeloma P3x63-AG8.653, and growth of the monoclonal antibody-producing hybridoma by the ascite method were shown. The above antibodies and kits are useful in diagnosing bone dysbolism, in particular, osteoporosis and joint diseases or anal. reagents for laboratory use, etc.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> DIS L3 9 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L3 ANSWER 9 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:708857 CAPLUS

DOCUMENT NUMBER: 129:326927

TITLE: Preparation of osteoclastogenesis inhibitory factor-binding molecule from mouse and cloning and expression of its encoding cDNA

INVENTOR(S): Yamaguchi, Kyoji; Yasuda, Hisataka; Nakagawa, Nobuaki; Shima, Nobuyuki; Kinosaki, Masahiko; Tsuda, Eisuke; Goto, Masaaki; Yano, Kazuki; Tomoyasu, Akihiro; Kobayashi, Fumie; et al.

PATENT ASSIGNEE(S): Snow Brand Milk Products Co., Ltd., Japan

SOURCE: PCT Int. Appl., 151 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9846644	A1	19981022	WO 1998-JP1728	19980415
W: AU, CA, CN, HU, IL, JP, KR, MX, NO, NZ, RU, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2257247	A1	19981022	CA 1998-2257247	19980415
ZA 9803159	A	19981103	ZA 1998-3159	19980415
AU 9868518	A	19981111	AU 1998-68518	19980415
AU 735355	B2	20010705		
EP 911342	A1	19990428	EP 1998-914034	19980415
EP 911342	B1	20060531		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE, PT, IE, FI, CY				
CN 1222917	A	19990714	CN 1998-800477	19980415
HU 200000717	A2	20000628	HU 2000-717	19980415
NZ 332995	A	20000728	NZ 1998-332995	19980415
JP 3523650	B2	20040426	JP 1998-543741	19980415
RU 2238949	C2	20041027	RU 1999-100615	19980415
EP 1657255	A1	20060517	EP 2005-17241	19980415

R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE, PT, IE, FI, CY

AT 328006	T	20060615	AT 1998-914034	19980415
PT 911342	T	20060831	PT 1998-914034	19980415
ES 2263204	T3	20061201	ES 1998-914034	19980415
KR 2000016598	A	20000325	KR 1998-710194	19981212
NO 9805848	A	19990215	NO 1998-5848	19981214
NO 322632	B1	20061106		
MX 9810700	A	20000831	MX 1998-10700	19981215
US 2003176647	A1	20030918	US 2002-167182	20020611
US 2003208045	A1	20031106	US 2003-460623	20030613
US 7192718	B2	20070320		
JP 2004041195	A	20040212	JP 2003-169309	20030613
US 2005003457	A1	20050106	US 2004-854300	20040527
JP 2005176847	A	20050707	JP 2004-381995	20041228
US 2005208580	A1	20050922	US 2005-135521	20050524
US 2007009520	A1	20070111	US 2006-513178	20060831

PRIORITY APPLN. INFO.:

JP 1997-97808	A	19970415
JP 1997-151434	A	19970609
JP 1997-217897	A	19970812
JP 1997-224803	A	19970821
JP 1997-332241	A	19971202
EP 1998-914034	A3	19980415
JP 1998-543741	A3	19980415
WO 1998-JP1728	W	19980415
US 1998-202455	A3	19981215
US 2002-167182	A1	20020611
JP 2003-169309	A3	20030613
US 2004-854300	A1	20040527

ABSTRACT:

A osteoclastogenesis inhibitory factor (OCIF)-binding mol. (OBM) is prepared from the membrane fractions of mouse osteoblastoid stroma cell line ST2 and characterized. OBM exhibits a mol. weight of 30,000-40,000 or 40,000 \pm 4,000 by SDS-PAGE, or 90,000-110,000 if crosslinked. The cDNA encoding OBM is isolated from ST2 cell by using the primers derived from the partial peptide sequence of OBM, and its amino acid sequence deduced. Preparation of soluble form OBM

(amino acids 72-316 or 76-316) in transgenic Escherichia coli as a fusion protein with thioredoxin was also shown. Claimed are a method for screening a substance regulating the expression of OBM, a substance inhibiting or modifying the biol. activity of OBM, or an OBM receptor, medicinal compns. containing the substances thus obtained, and antibodies to OBM and drugs containing them.

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> DIS L3 10 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L3 ANSWER 10 OF 10 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:628559 CAPLUS

DOCUMENT NUMBER: 125:271959

TITLE: Cloning and expression of cDNA for human osteoclastogenesis inhibitory factor and variants and mutants and their clinical uses

INVENTOR(S): Goto, Masaaki; Tsuda, Eisuke; Mochizuki, Shin'ichi; Yano, Kazuki; Kobayashi, Fumie; Shima, Nobuyuki; Yasuda, Hisataka; Nakagawa, Nobuaki; Morinaga, Tomonori; et al.; et al.

PATENT ASSIGNEE(S): Snow Brand Milk Products Co., Ltd., Japan; Goto Masaaki

SOURCE: PCT Int. Appl., 183 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
 LANGUAGE: Japanese
 FAMILY ACC. NUM. COUNT: 2
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9626217	A1	19960829	WO 1996-JP374	19960220
W: AU, CA, CN, FI, HU, JP, KR, MX, NO, NZ, RU, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
IL 117175	A	20051120	IL 1996-117175	19960219
CA 2213469	A1	19960829	CA 1996-2213469	19960220
AU 9646773	A	19960911	AU 1996-46773	19960220
AU 702557	B2	19990225		
ZA 9601334	A	19970820	ZA 1996-1334	19960220
EP 816380	A1	19980107	EP 1996-902484	19960220
EP 816380	B1	20040825		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
CN 1175956	A	19980311	CN 1996-192019	19960220
HU 9900422	A2	19990628	HU 1999-422	19960220
HU 9900422	A3	20021128		
HU 224570	B1	20051028		
RU 2194714	C2	20021220	RU 1997-115710	19960220
JP 3502102	B2	20040302	JP 1996-525553	19960220
AT 274580	T	20040915	AT 1996-902484	19960220
RU 2238948	C2	20041027	RU 2002-120050	19960220
PT 816380	T	20041231	PT 1996-902484	19960220
ES 2227579	T3	20050401	ES 1996-902484	19960220
EP 1528103	A1	20050504	EP 2004-76464	19960220
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
CN 1763194	A	20060426	CN 2005-10091137	19960220
TW 538049	B	20030621	TW 1996-85108022	19960703
NO 9703801	A	19971020	NO 1997-3801	19970819
NO 318898	B1	20050518		
FI 9703402	A	19971017	FI 1997-3402	19970820
US 7125686	B1	20061024	US 1997-915004	19970820
US 2002051969	A1	20020502	US 1998-62113	19980417
US 7205397	B2	20070417		
US 6919434	B1	20050719	US 1999-338063	19990623
US 2003153048	A1	20030814	US 2002-232858	20020903
US 6855808	B2	20050215		
JP 2004000237	A	20040108	JP 2003-177872	20030623
JP 3793180	B2	20060705		
US 2004142426	A1	20040722	US 2004-785109	20040225
US 2004143859	A1	20040722	US 2004-785114	20040225
JP 2005013217	A	20050120	JP 2004-63029	20040305
US 2005014229	A1	20050120	US 2004-929958	20040831
US 2005026837	A1	20050203	US 2004-929748	20040831
US 2005118682	A1	20050602	US 2004-979303	20041103
US 2005124054	A1	20050609	US 2004-979654	20041103

PRIORITY APPLN. INFO.:

JP 1995-54977	A	19950220
JP 1995-207508	A	19950721
JP 1996-525553	A	19960220
CN 1996-192019	A3	19960220
EP 1996-902484	A3	19960220
RU 1997-115710	A	19960220
WO 1996-JP374	W	19960220
US 1997-915004	A3	19970820
US 2002-232858	A1	20020903
JP 2003-177872	A3	20030623

ABSTRACT:

Osteoclastogenesis inhibitory factor (OCIF), a novel protein having an activity of suppressing the differentiation and/or maturation of osteoclasts, is prepared from the culture of human fibroblast IMR-90 and

characterized. This protein has a mol. weight of about 60 kDa under reductive conditions or about 120 kDa under non-reductive conditions. It also exhibits affinity to cationic exchanger and heparin. The cDNA encoding OCIF, variants OCIF2.apprx.5, and its mutants are provided, and their amino acid sequence deduced. Expression of the cDNA for OCIF in transgenic host such as CHO cell and purification of recombinant OCIF, and cloning of genomic DNA for human OCIF are demonstrated. Monoclonal/polyclonal antibodies to OCIF are also prepared for use in the assay of
 OCIF.

=> E MOCHIZUKI SHINICHI/IN 25

E1	2	MOCHIZUKI SHIN ICHI/IN
E2	1	MOCHIZUKI SHINGO/IN
E3	23	--> MOCHIZUKI SHINICHI/IN
E4	3	MOCHIZUKI SHINICHIRO/IN
E5	9	MOCHIZUKI SHINJI/IN
E6	17	MOCHIZUKI SHINOBU/IN
E7	19	MOCHIZUKI SHINSUKE/IN
E8	4	MOCHIZUKI SHINYA/IN
E9	7	MOCHIZUKI SHIRO/IN
E10	16	MOCHIZUKI SHOGO/IN
E11	19	MOCHIZUKI SHOICHI/IN
E12	4	MOCHIZUKI SHOJI/IN
E13	2	MOCHIZUKI SHOKOU/IN
E14	4	MOCHIZUKI SHOTARO/IN
E15	1	MOCHIZUKI SHOUJI/IN
E16	1	MOCHIZUKI SHOUKOU/IN
E17	1	MOCHIZUKI SHOZO/IN
E18	36	MOCHIZUKI SHU/IN
E19	1	MOCHIZUKI SHUGOU/IN
E20	2	MOCHIZUKI SHUICHI/IN
E21	1	MOCHIZUKI SHUICHIRO/IN
E22	10	MOCHIZUKI SHUJI/IN
E23	1	MOCHIZUKI SHUKO/IN
E24	5	MOCHIZUKI SHUKOU/IN
E25	9	MOCHIZUKI SHUNJI/IN

=> S (E3) AND (OCIF)

23 "MOCHIZUKI SHINICHI"/IN
 143 OCIF
 1 OCIFS
 143 OCIF

(OCIF OR OCIFS)

L4 3 ("MOCHIZUKI SHINICHI"/IN) AND (OCIF)

=> DIS L4 1 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS
 DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L4 ANSWER 1 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2004:584657 CAPLUS

DOCUMENT NUMBER: 141:145689

TITLE: Remedies and preventives for bone metabolism disorder
 containing osteoclastogenesis inhibitory
 factor-polysaccharide composites

INVENTOR(S): Yamamoto, Shinichi; Okada, Junichi; Kurihara, Atsushi;
 Numasawa, Taku; Kondo, Junichi; Tsuda, Eisuke;
 Mochizuki, Shinichi; Miyazaki, Hideki; Nishi,
 Hirotaka

PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 41 pp.
 CODEN: JKXXAF

DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004203747	A	20040722	JP 2002-371193	20021224
PRIORITY APPLN. INFO.:			JP 2002-371193	20021224

ABSTRACT:

The invention relates to remedies and/or preventives for bone metabolism disorder, characterized by containing composite compds. consisting of osteoclastogenesis inhibitory factor (OCIF) or its related compound and polysaccharide. A recombinant human OCIF (dimer) was reacted with dextran sulfate sodium sulfur to make an injection. The composite showed lower heparin adsorption rate. Also, the OCIF content in the composite was analyzed by ELISA.

=> DIS L4 2 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L4 ANSWER 2 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2003:4784 CAPLUS
DOCUMENT NUMBER: 138:61269
TITLE: A complex comprising OCIF and polysaccharide
INVENTOR(S): Yamamoto, Shinichi; Okada, Junichi; Kurihara, Atsushi;
Numazawa, Taku; Kondo, Junichi; Tsuda, Eisuke;
Mochizuki, Shinichi; Nishi, Hirotaka;
Miyazaki, Hideki
PATENT ASSIGNEE(S): Sankyo Company Limited, Japan
SOURCE: Eur. Pat. Appl., 31 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1270015	A2	20030102	EP 2002-254497	20020626
EP 1270015	A3	20040225		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
IN 2002CA00387	A	20050311	IN 2002-CA387	20020625
US 2003045456	A1	20030306	US 2002-183091	20020627
ZA 2002005164	A	20030324	ZA 2002-5164	20020627
CA 2392383	A1	20021229	CA 2002-2392383	20020628
NO 2002003144	A	20021230	NO 2002-3144	20020628
AU 200250719	A	20030102	AU 2002-50719	20020628
AU 783126	B2	20050929		
HU 200202119	A2	20030428	HU 2002-2119	20020628
JP 2003160601	A	20030603	JP 2002-190407	20020628
BR 2002002439	A	20030610	BR 2002-2439	20020628
SG 98059	A1	20030820	SG 2002-3944	20020628
RU 2232594	C2	20040720	RU 2002-117385	20020628
CN 1442201	A	20030917	CN 2002-155849	20020629
US 2003139325	A1	20030724	US 2003-364045	20030211
US 2006084595	A1	20060420	US 2005-254836	20051021
PRIORITY APPLN. INFO.:			JP 2001-198985	A 20010629
			US 2002-183091	A1 20020627

ABSTRACT:

A novel complex comprising at least one substance selected from the group consisting of osteoclastogenesis-inhibitory factor (OCIF), analogs thereof, and variants thereof, which is bound to at least one substance selected from the group consisting of polysaccharides and derivs. thereof shows prolonged retention in the bloodstream after administration making it useful in the treatment and prophylaxis of bone metabolic diseases.

=> DIS L4 3 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L4 ANSWER 3 OF 3 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:290857 CAPLUS

DOCUMENT NUMBER: 132:284272

TITLE: Remedies containing osteoclastogenesis inhibitory factor for bone metabolic errors

INVENTOR(S): Mochizuki, Shinichi; Fujise, Nobuaki; Masuyama, Chiharu; Tsuda, Eisuke; Higashio, Kanji

PATENT ASSIGNEE(S): Snow Brand Milk Products Co., Ltd., Japan; Sankyo Co., Ltd.

SOURCE: PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000024416	A1	20000504	WO 1999-JP5963	19991028
W: AU, BR, CA, CN, CZ, HU, ID, IL, IN, JP, KR, MX, NO, NZ, PL, RU, TR, US, ZA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2347107	A1	20000504	CA 1999-2347107	19991028
AU 9964877	A	20000515	AU 1999-64877	19991028
AU 755422	B2	20021212		
BR 9914834	A	20010814	BR 1999-14834	19991028
EP 1127578	A1	20010829	EP 1999-952793	19991028
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
TR 200101146	T2	20010921	TR 2001-200101146	19991028
HU 200104126	A2	20020328	HU 2001-4126	19991028
TW 529954	B	20030501	TW 1999-88118658	19991028
RU 2223782	C2	20040220	RU 2001-114216	19991028
NZ 511506	A	20040227	NZ 1999-511506	19991028
JP 3860415	B2	20061220	JP 2000-578024	19991028
US 2001031725	A1	20011018	US 2001-834008	20010412
US 6919312	B2	20050719		
ZA 2001003296	A	20011025	ZA 2001-3296	20010423
IN 2001KN00461	A	20050311	IN 2001-KN461	20010424
NO 2001002106	A	20010621	NO 2001-2106	20010427
PRIORITY APPLN. INFO.:			JP 1998-322874	A 19981028
			WO 1999-JP5963	W 19991028

ABSTRACT:

The invention relates to novel remedies for bone metabolic errors. These remedies comprise at least one member selected from the group consisting of osteoclastogenesis inhibitory factor (OCIF), analogs thereof and variants thereof and polysaccharides or derivs. thereof. As the polysaccharides or derivs. thereof, use may be made of heparin, dextran sulfate, etc. These remedies have excellent therapeutic effects on bone metabolic errors such as osteoporosis, hypercalcemia and rheumatoid arthritis

and can sustain the activities over a long time, which makes them highly useful as drugs. An injection solution was formulated containing osteoclastogenesis inhibitory factor 500 µg, heparin 2 mg and 0.15 M NaCl- and 0.01 % Tween 80-containing 10 mM phosphate buffer.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> E YANO KAZUKI/IN 25

E1	77	YANO KAZUHISA/IN
E2	2	YANO KAZUHITO/IN
E3	9 -->	YANO KAZUKI/IN
E4	1	YANO KAZUMASA/IN
E5	1	YANO KAZUNARI/IN
E6	83	YANO KAZUNORI/IN
E7	53	YANO KAZUO/IN
E8	3	YANO KAZUTAKA/IN
E9	4	YANO KAZUTOSHI/IN
E10	14	YANO KAZUYA/IN
E11	10	YANO KAZUYOSHI/IN
E12	13	YANO KAZUYUKI/IN
E13	31	YANO KEIICHI/IN
E14	17	YANO KEIJI/IN
E15	15	YANO KEIKO/IN
E16	6	YANO KEISHI/IN
E17	3	YANO KEISUKE/IN
E18	6	YANO KEITA/IN
E19	1	YANO KEITARO/IN
E20	8	YANO KEIWA/IN
E21	2	YANO KEIYA/IN
E22	1	YANO KENFUKE/IN
E23	3	YANO KENGO/IN
E24	29	YANO KENICHI/IN
E25	18	YANO KENICHIRO/IN

=> S (E3) AND (OCIF)

9 "YANO KAZUKI"/IN

143 OCIF

1 OCIFS

143 OCIF

(OCIF OR OCIFS)

L5 6 ("YANO KAZUKI"/IN) AND (OCIF)

=> DIS L5 1 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L5 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2006:1109548 CAPLUS

DOCUMENT NUMBER: 145:450102

TITLE: cdna cloning and sequences for protein OSIF (osteoclastogenesis inhibitory factor), and methods for its production in mammalian cells

INVENTOR(S): Goto, Masaaki; Tsuda, Eisuke; Mochizuki, Shin'ichi; Yano, Kazuki; Kobayashi, Fumie; Shima, Nobuyuki; Yasuda, Hisataka; Nakagawa, Nobuaki; Morinaga, Tomonori; Ueda, Masatsugu; Higashio, Kanji

PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan

SOURCE: U.S., 85pp.

CODEN: USXXAM

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 7125686	B1	20061024	US 1997-915004	19970820
IL 117175	A	20051120	IL 1996-117175	19960219
CA 2213469	A1	19960829	CA 1996-2213469	19960220
WO 9626217	A1	19960829	WO 1996-JP374	19960220
W: AU, CA, CN, FI, HU, JP, KR, MX, NO, NZ, RU, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
ZA 9601334	A	19970820	ZA 1996-1334	19960220
CN 1175956	A	19980311	CN 1996-192019	19960220
RU 2238948	C2	20041027	RU 2002-120050	19960220
PT 816380	T	20041231	PT 1996-902484	19960220
ES 2227579	T3	20050401	ES 1996-902484	19960220
EP 1528103	A1	20050504	EP 2004-76464	19960220
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
CN 1763194	A	20060426	CN 2005-10091137	19960220
TW 538049	B	20030621	TW 1996-85108022	19960703
US 2002051969	A1	20020502	US 1998-62113	19980417
US 7205397	B2	20070417		
US 6919434	B1	20050719	US 1999-338063	19990623
US 2003153048	A1	20030814	US 2002-232858	20020903
US 6855808	B2	20050215		
US 2004142426	A1	20040722	US 2004-785109	20040225
US 2004143859	A1	20040722	US 2004-785114	20040225
JP 2005013217	A	20050120	JP 2004-63029	20040305
US 2005014229	A1	20050120	US 2004-929958	20040831
US 2005026837	A1	20050203	US 2004-929748	20040831
US 2005118682	A1	20050602	US 2004-979303	20041103
US 2005124054	A1	20050609	US 2004-979654	20041103
PRIORITY APPLN. INFO.:				
			JP 1995-54977	A 19950220
			JP 1995-207508	A 19950721
			WO 1996-JP374	A2 19960220
			CN 1996-192019	A3 19960220
			EP 1996-902484	A3 19960220
			JP 1996-525553	A 19960220
			RU 1997-115710	A 19960220
			US 1997-915004	A3 19970820
			US 2002-232858	A1 20020903
			JP 2003-177872	A3 20030623

ABSTRACT:

The invention provides a protein which inhibits osteoclast differentiation and/or maturation, termed osteoclastogenesis inhibitory factor (OCIF), as well as a procedure to produce the OCIF protein. The ***OCIF*** protein was isolated from human embryonic lung fibroblasts IMR-90. The inventors have established a method for accumulating the protein to a high concentration by culturing IMR-90 cells on alumina ceramic pieces, which function as cell adherence matrixes. The OSIF protein has a mol. weight (by SDS-PAGE) of 60 kD under reducing conditions and mol. wts. of 60 kD (a monomer) and 120 kD (a homodimer) under non-reducing conditions, and has affinity for both cation-exchange resins and heparin. Provided are cDNA and protein sequences for OCIF, as well as antibodies having specific affinity for the protein or a method for determining protein concentration using these antibodies.

REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> DIS L5 2 IBIB IABS
THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

ACCESSION NUMBER: 2002:777987 CAPLUS
DOCUMENT NUMBER: 137:277804
TITLE: Monoclonal antibodies specific to complex of osteoclastogenesis inhibitory factor with soluble OCIF-binding molecule and for diagnosis and therapy of bone metabolic disorders
INVENTOR(S): Washida, Naohiro; Satake, Toshiko; Yano, Kazuki
PATENT ASSIGNEE(S): Sankyo Company, Limited, Japan
SOURCE: PCT Int. Appl., 42 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002079256	A1	20021010	WO 2002-JP2909	20020326
W: AU, BR, CA, CN, CO, CZ, HU, ID, IL, IN, KR, MX, NO, NZ, PH, PL, RU, SG, SK, US, VN, ZA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
JP 2003160600	A	20030603	JP 2002-83678	20020325
AU 2002239068	A1	20021015	AU 2002-239068	20020326
PRIORITY APPLN. INFO.:			JP 2001-88174	A 20010326
			WO 2002-JP2909	W 20020326

ABSTRACT:

Provided are antibodies binding to complex of osteoclastogenesis inhibitory factor (OCIF) with a soluble OCIF-binding mol. (sOBM) (***OCIF***/sOBM complex) occurring in bodily fluids; hybridomas producing these antibodies; process for producing the above antibodies, with the use of these hybridomas; and preventives or remedies for bone metabolic errors containing these antibodies as the active ingredient. The invention is related to methods and test kits of quantifying the OCIF/sOBM complex. The above-described antibodies are also useful in diagnosing, preventing and treating bone metabolic errors (in particular, rheumatoid arthritis) or as an anal. reagent for laboratory use.

REFERENCE COUNT: 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> DIS L5 3 IBIB IABS
THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L5 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:615830 CAPLUS
DOCUMENT NUMBER: 137:139368
TITLE: Antibody binding to osteoclastogenesis inhibitory factor (OCIF)-soluble OCIF binding molecule (sOBM) complex and use in diagnosis and therapy of bone metabolism disease
INVENTOR(S): Washida, Naohiro; Satake, Toshiko; Yano, Kazuki
PATENT ASSIGNEE(S): Sankyo Company, Limited, Japan
SOURCE: PCT Int. Appl., 34 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002062990	A1	20020815	WO 2002-JP963	20020206
W: AU, BR, CA, CN, CO, CZ, HU, ID, IL, IN, KR, MX, NO, NZ, PH, PL, RU, SG, SK, US, VN, ZA				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
AU 2002230154	A1	20020819	AU 2002-230154	20020206
JP 2003153690	A	20030527	JP 2002-29521	20020206
PRIORITY APPLN. INFO.:			JP 2001-31422	A 20010207
			WO 2002-JP963	W 20020206

ABSTRACT:

Antibodies binding to osteoclastogenesis inhibitory factor (OCIF)-soluble OCIF binding mol. (sOBM) complex, and use in diagnosis, prevention, or treatment of bone metabolism abnormality, are disclosed. Diagnosis, prevention, or treatment of rheumatoid arthritis, osteoarthritis, osteoporosis, hypercalcemia, bone Paget's disease, renal bone abnormal nutrition symptom, is claimed. Diagnostic reagent kits and hybridomas for the production of antibodies, are also claimed.

REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> DIS L5 4 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS

DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L5 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1999:223074 CAPLUS
DOCUMENT NUMBER: 130:222129
TITLE: Method for diagnosing bone dysbolism
INVENTOR(S): Yano, Kazuki; Kobayashi, Fumie; Goto, Masaaki; Washida, Naohiro; Tsuda, Eisuke; Higashio, Kanji; Yamada, Yoshiji
PATENT ASSIGNEE(S): Snow Brand Milk Products Co., Ltd., Japan
SOURCE: PCT Int. Appl., 36 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9915691	A1	19990401	WO 1998-JP3421	19980731
W: AU, CA, CN, HU, IL, JP, KR, MX, NO, NZ, RU, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2269114	A1	19990324	CA 1998-2269114	19980731
AU 9884617	A	19990412	AU 1998-84617	19980731
AU 739304	B2	20011011		
EP 974671	A1	20000126	EP 1998-935306	19980731
EP 974671	B1	20060531		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE, PT, IE, FI				
HU 200002062	A2	20001028	HU 2000-2062	19980731
NZ 335759	A	20020201	NZ 1998-335759	19980731
RU 2203497	C2	20030427	RU 1999-113447	19980731
IL 129535	A	20030706	IL 1998-129535	19980731
AT 328281	T	20060615	AT 1998-935306	19980731
ZA 9806974	A	19990204	ZA 1998-6974	19980804
MX 9904633	A	20000930	MX 1999-4633	19990519
NO 9902472	A	19990521	NO 1999-2472	19990521
US 2002004207	A1	20020110	US 1999-308800	19990524

US 6693175	B2	20040217		
US 2004033533	A1	20040219	US 2003-641088	20030815
US 6998242	B2	20060214		

PRIORITY APPLN. INFO.: JP 1997-276475 A 19970924
WO 1998-JP3421 W 19980731
US 1999-308800 A1 19990524

ABSTRACT:

A method for diagnosing bone dysbolism, in particular osteoporosis and joint diseases characterized by measuring the concentration of osteoclastogenesis inhibitory factors (OCIFs) in the bodily fluid; a monoclonal antibody equally recognizing monomeric and dimeric OCIFs; a monoclonal antibody selectively recognizing the dimeric OCIF alone; and OCIF assay kits which contain the monoclonal antibodies of the above two types, recognizing different epitopes of OCIFs, and having a high affinity and a dissociation constant with an antigen of 2×10^{-7} M or below. Immunization of Balb/c mice by i.p. injection, collection of spleen of the immunized mice, hybridization with mouse myeloma P3x63-AG8.653, and growth of the monoclonal antibody-producing hybridoma by the ascite method were shown. The above antibodies and kits are useful in diagnosing bone dysbolism, in particular, osteoporosis and joint diseases or anal. reagents for laboratory use, etc.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> DIS L5 5 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L5 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1998:708857 CAPLUS
DOCUMENT NUMBER: 129:326927
TITLE: Preparation of osteoclastogenesis inhibitory factor-binding molecule from mouse and cloning and expression of its encoding cDNA
INVENTOR(S): Yamaguchi, Kyoji; Yasuda, Hisataka; Nakagawa, Nobuaki; Shima, Nobuyuki; Kinoshita, Masahiko; Tsuda, Eisuke; Goto, Masaaki; Yano, Kazuki; Tomoyasu, Akihiro; Kobayashi, Fumie; et al.
PATENT ASSIGNEE(S): Snow Brand Milk Products Co., Ltd., Japan
SOURCE: PCT Int. Appl., 151 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9846644	A1	19981022	WO 1998-JP1728	19980415
W: AU, CA, CN, HU, IL, JP, KR, MX, NO, NZ, RU, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
CA 2257247	A1	19981022	CA 1998-2257247	19980415
ZA 9803159	A	19981103	ZA 1998-3159	19980415
AU 9868518	A	19981111	AU 1998-68518	19980415
AU 735355	B2	20010705		
EP 911342	A1	19990428	EP 1998-914034	19980415
EP 911342	B1	20060531		
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE, PT, IE, FI, CY				
CN 1222917	A	19990714	CN 1998-800477	19980415
HU 200000717	A2	20000628	HU 2000-717	19980415
NZ 332995	A	20000728	NZ 1998-332995	19980415

JP 3523650	B2	20040426	JP 1998-543741	19980415
RU 2238949	C2	20041027	RU 1999-100615	19980415
EP 1657255	A1	20060517	EP 2005-17241	19980415
R: AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, LU, NL, SE, PT, IE, FI, CY				
AT 328006	T	20060615	AT 1998-914034	19980415
PT 911342	T	20060831	PT 1998-914034	19980415
ES 2263204	T3	20061201	ES 1998-914034	19980415
KR 2000016598	A	20000325	KR 1998-710194	19981212
NO 9805848	A	19990215	NO 1998-5848	19981214
NO 322632	B1	20061106		
MX 9810700	A	20000831	MX 1998-10700	19981215
US 2003176647	A1	20030918	US 2002-167182	20020611
US 2003208045	A1	20031106	US 2003-460623	20030613
US 7192718	B2	20070320		
JP 2004041195	A	20040212	JP 2003-169309	20030613
US 2005003457	A1	20050106	US 2004-854300	20040527
JP 2005176847	A	20050707	JP 2004-381995	20041228
US 2005208580	A1	20050922	US 2005-135521	20050524
US 2007009520	A1	20070111	US 2006-513178	20060831
PRIORITY APPLN. INFO.:				
			JP 1997-97808	A 19970415
			JP 1997-151434	A 19970609
			JP 1997-217897	A 19970812
			JP 1997-224803	A 19970821
			JP 1997-332241	A 19971202
			EP 1998-914034	A3 19980415
			JP 1998-543741	A3 19980415
			WO 1998-JP1728	W 19980415
			US 1998-202455	A3 19981215
			US 2002-167182	A1 20020611
			JP 2003-169309	A3 20030613
			US 2004-854300	A1 20040527

ABSTRACT:

A osteoclastogenesis inhibitory factor (OCIF)-binding mol. (OBM) is prepared from the membrane fractions of mouse osteoblastoid stroma cell line ST2 and characterized. OBM exhibits a mol. weight of 30,000-40,000 or 40,000±4,000 by SDS-PAGE, or 90,000-110,000 if crosslinked. The cDNA encoding OBM is isolated from ST2 cell by using the primers derived from the partial peptide sequence of OBM, and its amino acid sequence deduced. Preparation of soluble form OBM

(amino acids 72-316 or 76-316) in transgenic Escherichia coli as a fusion protein with thioredoxin was also shown. Claimed are a method for screening a substance regulating the expression of OBM, a substance inhibiting or modifying the biol. activity of OBM, or an OBM receptor, medicinal compns. containing the substances thus obtained, and antibodies to OBM and drugs containing them.

REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> DIS L5 6 IBIB IABS

THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L5 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 1996:628559 CAPLUS

DOCUMENT NUMBER: 125:271959

TITLE: Cloning and expression of cDNA for human osteoclastogenesis inhibitory factor and variants and mutants and their clinical uses

INVENTOR(S): Goto, Masaaki; Tsuda, Eisuke; Mochizuki, Shin'ichi; Yano, Kazuki; Kobayashi, Fumie; Shima, Nobuyuki; Yasuda, Hisataka; Nakagawa, Nobuaki; Morinaga, Tomonori; et al.; et al.

PATENT ASSIGNEE(S): Snow Brand Milk Products Co., Ltd., Japan; Goto

SOURCE: Masaaki
PCT Int. Appl., 183 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9626217	A1	19960829	WO 1996-JP374	19960220
W: AU, CA, CN, FI, HU, JP, KR, MX, NO, NZ, RU, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
IL 117175	A	20051120	IL 1996-117175	19960219
CA 2213469	A1	19960829	CA 1996-2213469	19960220
AU 9646773	A	19960911	AU 1996-46773	19960220
AU 702557	B2	19990225		
ZA 9601334	A	19970820	ZA 1996-1334	19960220
EP 816380	A1	19980107	EP 1996-902484	19960220
EP 816380	B1	20040825		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
CN 1175956	A	19980311	CN 1996-192019	19960220
HU 9900422	A2	19990628	HU 1999-422	19960220
HU 9900422	A3	20021128		
HU 224570	B1	20051028		
RU 2194714	C2	20021220	RU 1997-115710	19960220
JP 3502102	B2	20040302	JP 1996-525553	19960220
AT 274580	T	20040915	AT 1996-902484	19960220
RU 2238948	C2	20041027	RU 2002-120050	19960220
PT 816380	T	20041231	PT 1996-902484	19960220
ES 2227579	T3	20050401	ES 1996-902484	19960220
EP 1528103	A1	20050504	EP 2004-76464	19960220
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
CN 1763194	A	20060426	CN 2005-10091137	19960220
TW 538049	B	20030621	TW 1996-85108022	19960703
NO 9703801	A	19971020	NO 1997-3801	19970819
NO 318898	B1	20050518		
FI 9703402	A	19971017	FI 1997-3402	19970820
US 7125686	B1	20061024	US 1997-915004	19970820
US 2002051969	A1	20020502	US 1998-62113	19980417
US 7205397	B2	20070417		
US 6919434	B1	20050719	US 1999-338063	19990623
US 2003153048	A1	20030814	US 2002-232858	20020903
US 6855808	B2	20050215		
JP 2004000237	A	20040108	JP 2003-177872	20030623
JP 3793180	B2	20060705		
US 2004142426	A1	20040722	US 2004-785109	20040225
US 2004143859	A1	20040722	US 2004-785114	20040225
JP 2005013217	A	20050120	JP 2004-63029	20040305
US 2005014229	A1	20050120	US 2004-929958	20040831
US 2005026837	A1	20050203	US 2004-929748	20040831
US 2005118682	A1	20050602	US 2004-979303	20041103
US 2005124054	A1	20050609	US 2004-979654	20041103
PRIORITY APPLN. INFO.:				
			JP 1995-54977	A 19950220
			JP 1995-207508	A 19950721
			JP 1996-525553	A 19960220
			CN 1996-192019	A3 19960220
			EP 1996-902484	A3 19960220
			RU 1997-115710	A 19960220
			WO 1996-JP374	W 19960220
			US 1997-915004	A3 19970820
			US 2002-232858	A1 20020903
			JP 2003-177872	A3 20030623

ABSTRACT:

Osteoclastogenesis inhibitory factor (OCIF), a novel protein having an activity of suppressing the differentiation and/or maturation of osteoclasts, is prepared from the culture of human fibroblast IMR-90 and characterized. This protein has a mol. weight of about 60 kDa under reductive conditions or about 120 kDa under non-reductive conditions. It also exhibits affinity to cationic exchanger and heparin. The cDNA encoding OCIF, variants OCIF2.apprx.5, and its mutants are provided, and their amino acid sequence deduced. Expression of the cDNA for OCIF in transgenic host such as CHO cell and purification of recombinant OCIF, and cloning of genomic DNA for human OCIF are demonstrated. Monoclonal/polyclonal antibodies to OCIF are also prepared for use in the assay of
 OCIF.

=> E KOBAYASHI FUMIE/IN 25

E1	14	KOBAYASHI FUMIAKI/IN
E2	1	KOBAYASHI FUMICHIRO/IN
E3	12 -->	KOBAYASHI FUMIE/IN
E4	17	KOBAYASHI FUMIHIKO/IN
E5	6	KOBAYASHI FUMIHIRO/IN
E6	1	KOBAYASHI FUMIHISA/IN
E7	2	KOBAYASHI FUMIHITO/IN
E8	2	KOBAYASHI FUMIKA/IN
E9	58	KOBAYASHI FUMIKAZU/IN
E10	5	KOBAYASHI FUMIKO/IN
E11	15	KOBAYASHI FUMINORI/IN
E12	92	KOBAYASHI FUMIO/IN
E13	19	KOBAYASHI FUMITO/IN
E14	29	KOBAYASHI FUMITOSHI/IN
E15	10	KOBAYASHI FUMIYA/IN
E16	3	KOBAYASHI FUMIYOSHI/IN
E17	14	KOBAYASHI FUMIYUKI/IN
E18	1	KOBAYASHI FUMIZO/IN
E19	8	KOBAYASHI FUMYUKI/IN
E20	1	KOBAYASHI FUSAYO/IN
E21	1	KOBAYASHI FUTAJIRO/IN
E22	11	KOBAYASHI FUTOSHI/IN
E23	1	KOBAYASHI GAKUSHI/IN
E24	1	KOBAYASHI GENICHI/IN
E25	3	KOBAYASHI GENMON/IN

=> S (E3) AND (OCIF)

12 "KOBAYASHI FUMIE"/IN

143 OCIF

1 OCIFS

143 OCIF

(OCIF OR OCIFS)

L6 4 ("KOBAYASHI FUMIE"/IN) AND (OCIF)

=> DIS L6 1 TI

L6 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

TI cDNA cloning and sequences for protein OSIF (osteoclastogenesis inhibitory factor), and methods for its production in mammalian cells

=> DIS L6 2 TI

L6 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

TI Method for diagnosing bone dysbolism

=> DIS L6 3 TI

L6 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of osteoclastogenesis inhibitory factor-binding molecule from mouse and cloning and expression of its encoding cDNA

=> DIS L6 4 TI

L6 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
TI Cloning and expression of cDNA for human osteoclastogenesis inhibitory factor and variants and mutants and their clinical uses

=> E SHIMA NOBUYUKI/IN 25

E1	7	SHIMA NOBUKI/IN
E2	29	SHIMA NOBUTO/IN
E3	18 -->	SHIMA NOBUYUKI/IN
E4	1	SHIMA NORIHIKO/IN
E5	25	SHIMA NORIKO/IN
E6	1	SHIMA NORIO/IN
E7	1	SHIMA NORITOMO/IN
E8	2	SHIMA NORIYUKI/IN
E9	1	SHIMA OKITAMA/IN
E10	12	SHIMA OSAMU/IN
E11	1	SHIMA RIKAKO/IN
E12	1	SHIMA RINDGE/IN
E13	6	SHIMA RYOTO/IN
E14	7	SHIMA SACHIKO/IN
E15	1	SHIMA SADASHI/IN
E16	2	SHIMA SATOHARU/IN
E17	39	SHIMA SATOSHI/IN
E18	1	SHIMA SEIICHI/IN
E19	1	SHIMA SEISHI/IN
E20	1	SHIMA SEIZO/IN
E21	2	SHIMA SHIGENOBU/IN
E22	3	SHIMA SHIGEO/IN
E23	2	SHIMA SHIGERU/IN
E24	3	SHIMA SHIGEYUKI/IN
E25	15	SHIMA SHINICHI/IN

=> S (E3) AND (OCIF)

18 "SHIMA NOBUYUKI"/IN
143 OCIF
1 OCIFS
143 OCIF

(OCIF OR OCIFS)

L7 4 ("SHIMA NOBUYUKI"/IN) AND (OCIF)

=> DIS L7 1 TI

L7 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
TI cDNA cloning and sequences for protein OSIF (osteoclastogenesis inhibitory factor), and methods for its production in mammalian cells

=> DIS L7 2 TI

L7 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
TI Cloning of cDNA for protein capable of binding to the osteoclastogenesis inhibitory factor-binding molecule (OBM) from mice

=> DIS L7 3 TI

L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of osteoclastogenesis inhibitory factor-binding molecule from mouse and cloning and expression of its encoding cDNA

=> DIS L7 4 TI

L7 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
TI Cloning and expression of cDNA for human osteoclastogenesis inhibitory factor and variants and mutants and their clinical uses

=> E YASUDA HISATAKA/IN 25

E1	2	YASUDA HISAO/IN
E2	12	YASUDA HISASHI/IN
E3	5	--> YASUDA HISATAKA/IN
E4	16	YASUDA HISATOSHI/IN
E5	1	YASUDA HISAYUKI/IN
E6	1	YASUDA HITOMI/IN
E7	49	YASUDA HITOSHI/IN
E8	29	YASUDA HOZUMI/IN
E9	1	YASUDA ICHIE/IN
E10	1	YASUDA ICHIJI/IN
E11	1	YASUDA ICHIRO/IN
E12	1	YASUDA IKUE/IN
E13	15	YASUDA IKUO/IN
E14	78	YASUDA ISAMU/IN
E15	22	YASUDA ISAO/IN
E16	1	YASUDA ISSEI/IN
E17	3	YASUDA ITARU/IN
E18	5	YASUDA IZUMI/IN
E19	9	YASUDA JUJI/IN
E20	12	YASUDA JUN/IN
E21	21	YASUDA JUNICHI/IN
E22	1	YASUDA JUNICHI OJI/IN
E23	6	YASUDA JUNJI/IN
E24	5	YASUDA JUNKO/IN
E25	1	YASUDA JUZO/IN

=> S (E3) AND (OCIF)

5 "YASUDA HISATAKA"/IN
143 OCIF
1 OCIFS
143 OCIF

(OCIF OR OCIFS)

L8 4 ("YASUDA HISATAKA"/IN) AND (OCIF)

=> DIS L8 1 TI

L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
TI cDNA cloning and sequences for protein OSIF (osteoclastogenesis inhibitory factor), and methods for its production in mammalian cells

=> DIS L8 2 TI

L8 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
TI Preparation of osteoclastogenesis inhibitory factor-binding molecule from mouse and cloning and expression of its encoding cDNA

=> DIS L8 3 TI

L8 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

TI Cloning of genomic DNA for human osteoclastogenesis inhibitory factor

=> DIS L8 4 TI

L8 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

TI Cloning and expression of cDNA for human osteoclastogenesis inhibitory factor and variants and mutants and their clinical uses

=> E NAKAGAWA NOBUAKI/IN 25

E1	4	NAKAGAWA NARYUKI/IN
E2	12	NAKAGAWA NOBORU/IN
E3	52 -->	NAKAGAWA NOBUAKI/IN
E4	2	NAKAGAWA NOBUHIDE/IN
E5	8	NAKAGAWA NOBUHIRO/IN
E6	3	NAKAGAWA NOBUKO/IN
E7	48	NAKAGAWA NOBUO/IN
E8	16	NAKAGAWA NOBUYOSHI/IN
E9	28	NAKAGAWA NOBUYUKI/IN
E10	41	NAKAGAWA NORIAKI/IN
E11	18	NAKAGAWA NORIHIKO/IN
E12	2	NAKAGAWA NORIHIRO/IN
E13	23	NAKAGAWA NORIHISA/IN
E14	9	NAKAGAWA NORIKAZU/IN
E15	7	NAKAGAWA NORIKO/IN
E16	1	NAKAGAWA NORIMASA/IN
E17	7	NAKAGAWA NORIMITSU/IN
E18	5	NAKAGAWA NORIO/IN
E19	1	NAKAGAWA NORITAKE/IN
E20	2	NAKAGAWA NORITOSHI/IN
E21	1	NAKAGAWA NORIYOSHI/IN
E22	9	NAKAGAWA NORIYUKI/IN
E23	2	NAKAGAWA NORIYUKI/IN
E24	19	NAKAGAWA NOZOMI/IN
E25	9	NAKAGAWA NOZOMU/IN

=> S (E3) AND (OCIF)

52 "NAKAGAWA NOBUAKI"/IN

143 OCIF

1 OCIFS

143 OCIF

(OCIF OR OCIFS)

L9 4 ("NAKAGAWA NOBUAKI"/IN) AND (OCIF)

=> DIS L9 1 TI

L9 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

TI cDNA cloning and sequences for protein OSIF (osteoclastogenesis inhibitory factor), and methods for its production in mammalian cells

=> DIS L9 2 TI

L9 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

TI Preparation of osteoclastogenesis inhibitory factor-binding molecule from mouse and cloning and expression of its encoding cDNA

=> DIS L9 3 TI

L9 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

TI Cloning of genomic DNA for human osteoclastogenesis inhibitory factor

=> DIS L9 4 TI

L9 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN

TI Cloning and expression of cDNA for human osteoclastogenesis inhibitory factor and variants and mutants and their clinical uses

=> E MORINAGA TOMONORI/IN 25

E1	2	MORINAGA TETSUYA/IN
E2	1	MORINAGA TETUO/IN
E3	13 -->	MORINAGA TOMONORI/IN
E4	4	MORINAGA TOSHIAKI/IN
E5	4	MORINAGA TOSHIKAZU/IN
E6	1	MORINAGA TSUGUHIKO/IN
E7	13	MORINAGA TSUTAE/IN
E8	9	MORINAGA TSUTO/IN
E9	9	MORINAGA TSUTOMU/IN
E10	17	MORINAGA TSUTOU/IN
E11	13	MORINAGA TSUYOSHI/IN
E12	4	MORINAGA YASUFUMI/IN
E13	1	MORINAGA YASUHIKO/IN
E14	3	MORINAGA YASUHIRO/IN
E15	27	MORINAGA YASUNORI/IN
E16	66	MORINAGA YASUSHI/IN
E17	10	MORINAGA YOJI/IN
E18	4	MORINAGA YOSHI/IN
E19	7	MORINAGA YOSHIAKI/IN
E20	7	MORINAGA YOSHIHIRO/IN
E21	1	MORINAGA YOSHIKAZU/IN
E22	1	MORINAGA YOSHIKI/IN
E23	4	MORINAGA YUICHI/IN
E24	2	MORINAGA YUJI/IN
E25	1	MORINAGA YUKARI/IN

=> S (E3) AND (OCIF)

13 "MORINAGA TOMONORI"/IN

143 OCIF

1 OCIFS

143 OCIF

(OCIF OR OCIFS)

L10 5 ("MORINAGA TOMONORI"/IN) AND (OCIF)

=> DIS L10 1 TI

L10 ANSWER 1 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

TI cdna cloning and sequences for protein OSIF (osteoclastogenesis inhibitory factor), and methods for its production in mammalian cells

=> DIS L10 2 TI

L10 ANSWER 2 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

TI Cloning of cDNA for protein capable of binding to the osteoclastogenesis inhibitory factor-binding molecule (OBM) from mice

=> DIS L10 3 TI

L10 ANSWER 3 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

TI Transgenic animals lacking osteoclastogenesis inhibitory factor (OCIF)

=> DIS L10 4 TI

L10 ANSWER 4 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

TI Cloning of genomic DNA for human osteoclastogenesis inhibitory factor

=> DIS L10 5 TI

L10 ANSWER 5 OF 5 CAPLUS COPYRIGHT 2007 ACS on STN

TI Cloning and expression of cDNA for human osteoclastogenesis inhibitory factor and variants and mutants and their clinical uses

=> E UEDA MASATSUGU/IN 25

E1	93	UEDA MASATO/IN
E2	47	UEDA MASATOSHI/IN
E3	14 -->	UEDA MASATSUGU/IN
E4	1	UEDA MASATSUNE/IN
E5	65	UEDA MASAYA/IN
E6	1	UEDA MASAYASU/IN
E7	1	UEDA MASAYO/IN
E8	35	UEDA MASAYOSHI/IN
E9	72	UEDA MASAYUKI/IN
E10	1	UEDA MASAZANE/IN
E11	1	UEDA MASHIRO/IN
E12	1	UEDA MASUHIRO/IN
E13	5	UEDA MASUMI/IN
E14	1	UEDA MASUMITSU/IN
E15	1	UEDA MASUO/IN
E16	1	UEDA MASUTAMI/IN
E17	1	UEDA MASUZO/IN
E18	1	UEDA MATSUEI/IN
E19	8	UEDA MATSUHIDE/IN
E20	3	UEDA MATSUSHIGE/IN
E21	2	UEDA MATSUTARO/IN
E22	1	UEDA MEGUMI/IN
E23	1	UEDA MEGUMU/IN
E24	1	UEDA MICHIIHIKO/IN
E25	5	UEDA MICHIIHIRO/IN

=> S (E3) AND (OCIF)

14 "UEDA MASATSUGU"/IN
143 OCIF
1 OCIFS
143 OCIF

(OCIF OR OCIFS)

L11 1 ("UEDA MASATSUGU"/IN) AND (OCIF)

=> DIS L11 1 TI

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN

TI cDNA cloning and sequences for protein OSIF (osteoclastogenesis inhibitory factor), and methods for its production in mammalian cells

=> E HIGASHIO KANJI/IN 25

E1	6	HIGASHIO ATSUSHI/IN
E2	1	HIGASHIO CHIE/IN
E3	32 -->	HIGASHIO KANJI/IN
E4	17	HIGASHIO KAZUHIRO/IN
E5	1	HIGASHIO KAZUTAKA/IN
E6	3	HIGASHIO KIMIIHIKO/IN
E7	1	HIGASHIO KIYOSHI/IN
E8	1	HIGASHIO NAMI/IN

E9	1	HIGASHIO OSAMU/IN
E10	1	HIGASHIO TAKAYUKI/IN
E11	1	HIGASHIO TOSHIKI/IN
E12	19	HIGASHIO YASUHIKO/IN
E13	5	HIGASHIOGAWA TAKASHI/IN
E14	5	HIGASHIOHJI TAKASHI/IN
E15	49	HIGASHIOJI TAKASHI/IN
E16	8	HIGASHIOJI TAKUJI/IN
E17	3	HIGASHIOKA HIROSHI/IN
E18	1	HIGASHIOKA MASAYA/IN
E19	2	HIGASHIOKA NAGAHIRO/IN
E20	1	HIGASHIOKA NOBUHIRO/IN
E21	3	HIGASHIOKA OSAMU/IN
E22	1	HIGASHIOKA YASUYOSHI/IN
E23	9	HIGASHIONJI MASARU/IN
E24	9	HIGASHIOOJI TAKASHI/IN
E25	1	HIGASHIRA FUTOSHI/IN

=> S (E3) AND (OCIF)

32 "HIGASHIO KANJI"/IN

143 OCIF

1 OCIFS

143 OCIF

(OCIF OR OCIFS)

L12 6 ("HIGASHIO KANJI"/IN) AND (OCIF)

=> DIS L12 1 TI

L12 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

TI cDNA cloning and sequences for protein OSIF (osteoclastogenesis inhibitory factor), and methods for its production in mammalian cells

=> DIS L12 2 TI

L12 ANSWER 2 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

TI Remedies containing osteoclastogenesis inhibitory factor for bone metabolic errors

=> DIS L12 3 TI

L12 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

TI Proteins having osteoclastogenesis inhibitory factor (OCIF) inhibitory activity, their purification from osteoclasts, and uses for drug screening and pharmaceuticals

=> DIS L12 4 TI

L12 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

TI Cloning of cDNA for protein capable of binding to the osteoclastogenesis inhibitory factor-binding molecule (OBM) from mice

=> DIS L12 5 TI

L12 ANSWER 5 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN

TI Transgenic animals lacking osteoclastogenesis inhibitory factor (OCIF)

=> DIS L12 6 TI

L12 ANSWER 6 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
TI Method for diagnosing bone dysbolism

=> DIS L12 1 IBIB IABS
THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:N
REQUEST CANCELED

=> DIS L12 1 IBIB IABS
THE ESTIMATED COST FOR THIS REQUEST IS 2.83 U.S. DOLLARS
DO YOU WANT TO CONTINUE WITH THIS REQUEST? (Y)/N:Y

L12 ANSWER 1 OF 6 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:1109548 CAPLUS
DOCUMENT NUMBER: 145:450102
TITLE: cDNA cloning and sequences for protein OSIF
(osteoclastogenesis inhibitory factor), and methods
for its production in mammalian cells
INVENTOR(S): Goto, Masaaki; Tsuda, Eisuke; Mochizuki, Shin'ichi;
Yano, Kazuki; Kobayashi, Fumie; Shima, Nobuyuki;
Yasuda, Hisataka; Nakagawa, Nobuaki; Morinaga,
Tomonori; Ueda, Masatsugu; Higashio, Kanji
PATENT ASSIGNEE(S): Sankyo Co., Ltd., Japan
SOURCE: U.S., 85pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 7125686	B1	20061024	US 1997-915004	19970820
IL 117175	A	20051120	IL 1996-117175	19960219
CA 2213469	A1	19960829	CA 1996-2213469	19960220
WO 9626217	A1	19960829	WO 1996-JP374	19960220
W: AU, CA, CN, FI, HU, JP, KR, MX, NO, NZ, RU, US				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
ZA 9601334	A	19970820	ZA 1996-1334	19960220
CN 1175956	A	19980311	CN 1996-192019	19960220
RU 2238948	C2	20041027	RU 2002-120050	19960220
PT 816380	T	20041231	PT 1996-902484	19960220
ES 2227579	T3	20050401	ES 1996-902484	19960220
EP 1528103	A1	20050504	EP 2004-76464	19960220
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE				
CN 1763194	A	20060426	CN 2005-10091137	19960220
TW 538049	B	20030621	TW 1996-85108022	19960703
US 2002051969	A1	20020502	US 1998-62113	19980417
US 7205397	B2	20070417		
US 6919434	B1	20050719	US 1999-338063	19990623
US 2003153048	A1	20030814	US 2002-232858	20020903
US 6855808	B2	20050215		
US 2004142426	A1	20040722	US 2004-785109	20040225
US 2004143859	A1	20040722	US 2004-785114	20040225
JP 2005013217	A	20050120	JP 2004-63029	20040305
US 2005014229	A1	20050120	US 2004-929958	20040831
US 2005026837	A1	20050203	US 2004-929748	20040831
US 2005118682	A1	20050602	US 2004-979303	20041103
US 2005124054	A1	20050609	US 2004-979654	20041103
PRIORITY APPLN. INFO.:			JP 1995-54977	A 19950220
			JP 1995-207508	A 19950721
			WO 1996-JP374	A2 19960220
			CN 1996-192019	A3 19960220

EP 1996-902484	A3 19960220
JP 1996-525553	A 19960220
RU 1997-115710	A 19960220
US 1997-915004	A3 19970820
US 2002-232858	A1 20020903
JP 2003-177872	A3 20030623

ABSTRACT:

The invention provides a protein which inhibits osteoclast differentiation and/or maturation, termed osteoclastogenesis inhibitory factor (OCIF), as well as a procedure to produce the OCIF protein. The ***OCIF*** protein was isolated from human embryonic lung fibroblasts IMR-90. The inventors have established a method for accumulating the protein to a high concentration by culturing IMR-90 cells on alumina ceramic pieces, which function as cell adherence matrixes. The OCIF protein has a mol. weight (by SDS-PAGE) of 60 kD under reducing conditions and mol. wts. of 60 kD (a monomer) and 120 kD (a homodimer) under non-reducing conditions, and has affinity for both cation-exchange resins and heparin. Provided are cDNA and protein sequences for OCIF, as well as antibodies having specific affinity for the protein or a method for determining protein concentration using these antibodies.

REFERENCE COUNT: 46 THERE ARE 46 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

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